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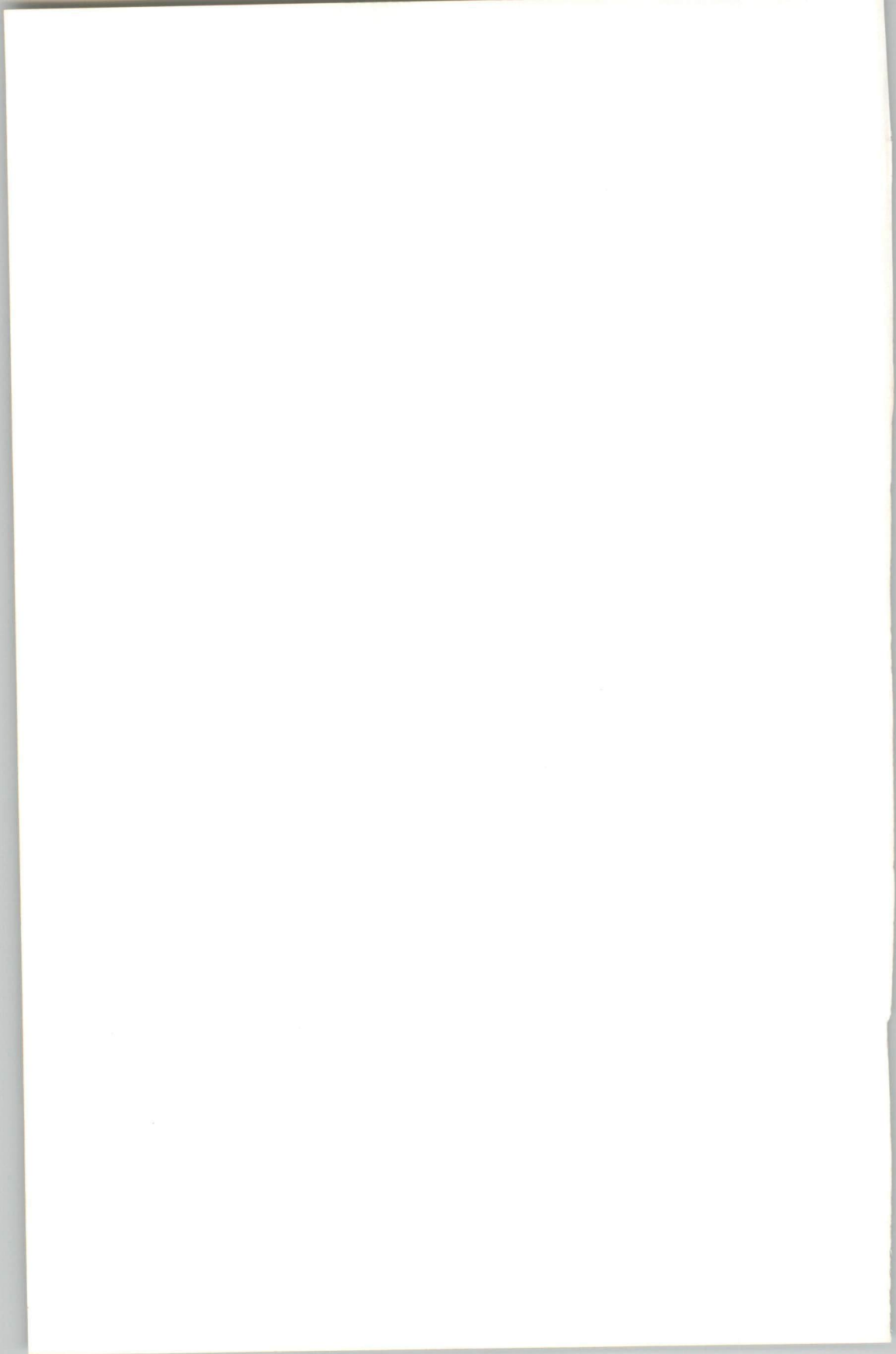
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150 grain Spire Point	406
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150 grain Full Metal Jacket Boat Tail	409
165 grain Spire Point	410
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168 grain Boat Tail Hollow Point National Match	412
38 Caliber (.357" diameter)	
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*Exterior
Ballistics
Tables*

INTRODUCTION

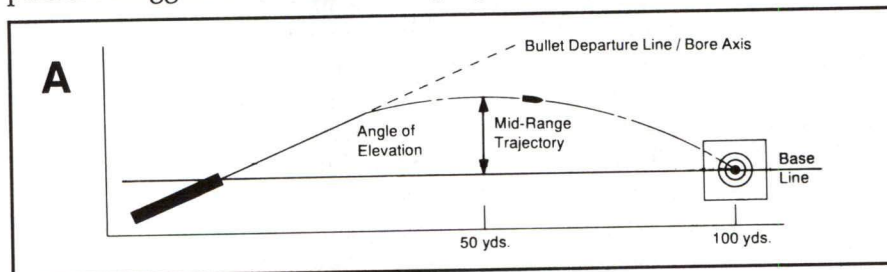
The field of ballistics is divided into three areas: interior ballistics, exterior ballistics and terminal ballistics. This portion of the manual deals with exterior ballistics.

Exterior Ballistics refers to the path of the bullet (also known as trajectory) and the effects of numerous variables on the bullet after it leaves the muzzle of the firearm. The discussion and tables that follow offer the shooter explanations and data that will aid in improving performance in the field or at the target range. Included are trajectory tables for all Hornady Bullets. There are tables for target shooters and for hunters, wind drift tables, and charts that give corrections for shooting uphill or downhill.

The tables are set up in increments to coincide with the reloading data. For any powder-bullet-velocity combination listed in the reloading data, a corresponding trajectory is available in the tables. With this system the process of working up loads and zeroing firearms is made easier. Also, because the tables list remaining velocities and energies in increments that coincide with almost every aspect of shooting, choosing the best bullet to fit each situation is easy. In this manual all ballistic coefficients are adjusted to standard atmospheric conditions.

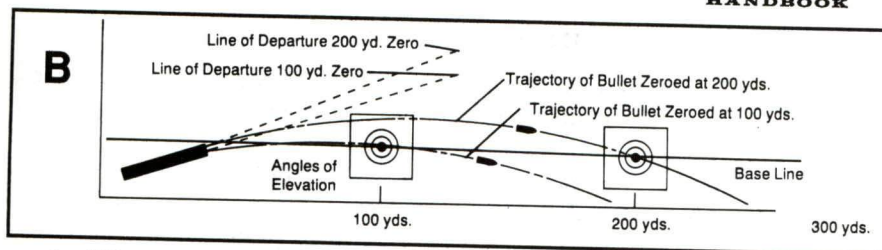
TRAJECTORY

The trajectory of a projectile is parabolic-shaped. A line that represents the actual path of a bullet, after it leaves the muzzle of a firearm, and its characteristics are shown in graph A. The angle of departure and the bullet path are exaggerated for illustrative purposes.



The Bullet Departure Line is tangent to the trajectory at the point the bullet leaves the muzzle. That is, once the bullet leaves the barrel, it drops below the Bore Axis. The angle formed by the line of departure and the base line is the Angle of Elevation, which for small arms is generally very small. The Mid-Range Trajectory is the height of the projectile at a point halfway between the muzzle and the point of impact.

Graph B compares the trajectory of the same bullet, same velocity but with different Angles of Elevation (for simplicity, the barrel is drawn in one position). The bullets have different zero points, one at 100 yards, the other at 200 yards. The bullet with the 100 yard zero has a mid-range of 50 yards, crosses the Base Line (or in practical use, the line of sight) at 100 yards and is below the Base Line (or line of sight) at 200 yards. It might be said that the bullet drops so many inches at 200 yards if the gun is zeroed at 100



yards. When you adjust your sights for different distances, you are altering the way the firearm will be held when sighted on target. This different position actually means a slightly different Angle of Elevation. Notice the trajectory of the 200 yard zeroed bullet is higher than that of the 100 yard zeroed bullet. It crosses the Base Line or line of sight at 200 yards and its Mid-Range Trajectory places it above the Base Line or line of sight at 100 yards.

The trajectory of a bullet can be calculated with reference to the Line of Departure, but in the field, the shooter's only reference is the line of sight. It is for this reason that the Hornady Trajectory Tables are constructed with reference to the line of sight.

The trajectory of any given bullet is not absolute and varies slightly because of many factors. Muzzle velocity, shape of the bullet, angle of muzzle upon firing, gravity, and air density are all physical factors that affect trajectory.

Air resistance, a factor affected by atmospheric conditions, plays a most important role in the trajectory of a bullet. Several variables in atmospheric conditions would include temperature, humidity and altitude. Also, the greater the velocity of a bullet, the greater the air resistance and the faster the bullet slows down. The shape and sectional density of a bullet (essentially, how streamlined the bullet is) contribute greatly to its ability to maintain velocity against air resistance. Round nosed projectiles are inferior to pointed bullets in maintaining velocity against air resistance. In addition, heavier bullets are superior to lighter bullets with the same shape. In calculating ballistic coefficient, both shape and sectional density are combined. The following examples, accompanied by excerpts from the Hornady Trajectory Tables indicate the importance of shape and sectional density to velocity retention and flat trajectory. By choosing equivalent

30 CALIBER (.308" DIA.) 180 GRAIN ROUND NOSE
SECTIONAL DENSITY: .271 BALLISTIC COEFFICIENT: .241

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2614	2259	1933	1639	1385	1186
ENERGY (ft.-lbs.)	3597	2731	2040	1493	1073	767	562
TRAJ: 100 yds. zero	-1.5"	0.0"	-3.6"	-14.1"	-34.0"	-67.0"	-118.4"

30 CALIBER (.308" DIA.) 180 GRAIN SPIRE POINT
SECTIONAL DENSITY: .271 BALLISTIC COEFFICIENT: .425

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2777	2565	2362	2169	1985	1810
ENERGY (ft.-lbs.)	3597	3082	2629	2230	1880	1574	1310
TRAJ: 100 yds. zero	-1.5"	0.0"	-3.0"	-11.3"	-25.9"	-47.8"	-78.6"

muzzle velocities (3000 fps) and comparing remaining velocities at six hundred yards, using the 180 grain SP and the 180 grain RN, we can readily determine the effects of bullet shape and sectional density. As is apparent by the trajectories, two bullets with the same sectional density and weight, but having different shapes, give markedly different results (100 yard zero and 600 yard trajectory: 180 grain SP drops-78.6", 180 grain RN drops-118.4").

Every bullet is assigned a numerical value that gives the bullet an index which ranks the bullet according to its ability to overcome air resistance. This numerical value is a ratio that compares that particular bullet to a standard projectile of known trajectory characteristics. The ratio is known as the Ballistic Coefficient (abbr. B.C.). The ratio compares the drag of the bullet (resistance caused by the bullet's travel through air) to the drag of the standard projectile.

$$\text{B.C.} = \frac{\text{Drag of standard projectile}}{\text{Drag of test projectile}}$$

The standard projectile with which all Hornady Bullets were compared was the G1 Model, based on work done in France, and refined at the U.S. Army Ballistic Research Laboratories, Aberdeen Proving Ground, Maryland. The G1 Model is excellent for almost all applications. All ballistic coefficients for Hornady Bullets were determined by computer calculations using data from actual test firings performed in our 200 yard underground range.

Atmospheric conditions cause changes in air resistance which in turn create an apparent change in the ballistic coefficient. For example, as temperature and altitude increase and as barometric pressure (Hg.) and humidity decrease, the bullet behaves as if it has a higher B.C. than in standard conditions — it drops less. When the above conditions are reversed, the B.C. appears to be lower and the bullet drops more. The following chart indicates the effects atmospheric conditions have on the ballistic coefficient and the flight of the bullet. Four identical bullets, 30 caliber 150 grain Spire Points, were fired at the same muzzle velocity but in different atmospheric conditions. Under standard conditions (Altitude — sea level, 59 degrees F, 29.53" Hg., and 78% relative humidity, standard conditions at the Aberdeen test site), the ballistic coefficient of the bullet is .338.

TEST NO. 1: STANDARD CONDITIONS

CONDITIONS: Sea Level, Temperature = 59°F, Barometric pressure 29.53", Relative Humidity 78%.

Range	Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.
Velocity (fps)	2900	2627	2371	2129	1901	1690
Trajectory - 100 yd zero	-1.5"	0.0	-3.6"	-13.3"	-30.8"	-57.9"

Results: Calculated ballistic coefficient = .338

TEST NO. 2: HIGHER TEMPERATURE

CONDITIONS: Sea Level, Temperature = 85°F, Barometric Pressure 29.53", Relative Humidity 78%.

Range	Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.
Velocity (fps)	2900	2640	2395	2162	1943	1739
Trajectory - 100 yd zero	-1.5"	0.0	-3.5"	-13.1"	-30.1"	-56.4"

Results: Due to less dense air (warmer temperatures) the calculated B.C. is .355.

TEST NO. 3: HIGHER BAROMETRIC PRESSURE

CONDITIONS: Sea Level, Temperature = 59°F, Barometric Pressure 31.00", Relative Humidity 78%.

Range	Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.
Velocity (fps)	2900	2614	2346	2094	1858	1641
Trajectory - 100 yd zero	-1.5"	0.0	-3.6"	-13.6"	-31.5"	-59.5"

Results: Due to denser air (higher barometric pressure) the calculated B.C. is .322.

TEST NO. 4: HIGHER ALTITUDE

CONDITIONS: 10,000', Temperature = 29°F, Barometric Pressure 21.00", Relative Humidity 78%.

Range	Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.
Velocity (fps)	2900	2693	2495	2306	2124	1952
Trajectory - 100 yd zero	-1.5"	0.0	-3.3"	-12.2"	-27.6"	-50.8"

Results: Due to less dense air (higher altitude) the calculated B.C. is .448.

All ballistic coefficients listed in the Hornady handbook are corrected to standard conditions for temperature, pressure, and relative humidity (59 degrees F, 29.53" Hg., and 78% relative humidity). Due to seasonal changes in temperature, humidity, and barometric pressure, it is rare for the Ballistic Coefficient recorded during firings to correspond with standard conditions. As a result, correction factors can be applied to determine the ballistic coefficient in non-standard conditions.

For clarity, we will discuss the process of applying correction factors to obtain Ballistic Coefficients for non-standard conditions. The drag on a bullet is generally dependent on air density. To correct for air density, we must know the air density at the shooting site and the standard air density for that area. The correction factor for air density is the ratio of:

$$\frac{\text{Standard Pressure}}{\text{Shooting Site Pressure}}$$

which is used as a multiplier.

The correction factor for temperature is:

$$\frac{\text{Shooting Site Temperature} + 459.4}{\text{Standard Temperature} + 459.4}$$

We must add 459.4° to site and standard to place all temperatures in the absolute Rankine Scale. Absolute zero is -459.4 degrees F. or 0° Rankine. This ratio is also used as a multiplier. While corrections can be made for humidity variations, these are tedious and the error brought about by ignoring such variations is negligible in almost all circumstances.

Using the previously discussed equations, a sample problem is worked below.

Present Ballistic Coefficient = .338

Shooting Site conditions: Temperature 29 degrees F, Barometric Pressure 21.00" Hg., and Relative Humidity 85%

Standard Conditions: Temperature 59 degrees F, Barometric Pressure 29.53" Hg., and Relative Humidity 78%.

$$\text{Temperature correction factor} = \frac{29 + 459.4}{59 + 459.4} = .942$$

$$\text{Barometric pressure correction factor} = \frac{29.53}{21.00} = 1.406$$

$$\begin{aligned} \text{Apparent Ballistic Coefficient} &= \text{Temp. factor} \times \text{Baro. factor} \times \text{present B.C.} \\ &= .942 \times 1.406 \times .338 = .448 \end{aligned}$$

After finding the ballistic coefficient, the shooter can refer to the Ballistic Tables and find a bullet with a similar BC to find his new trajectory. As a practical matter, increased air density would decrease the bullet's ability to travel through it. For example higher humidity, higher atmospheric pressure, lower temperature or lower altitude hinder the bullet's travel causing a lower calculated B.C. or, in other terms, causes the bullet to drop more. Under these conditions, a shooter must aim a little higher than normal to hit the same point of impact. Lower humidity, lower atmospheric pressures, higher temperature or higher altitude cause less dense air, hence the calculated B.C. would be higher, so the bullet drops less. A shooter must aim a little lower than normal to hit the same point of impact. If the shooter is going to change substantially from the conditions in which the rifle was zeroed (for example, going from Houston, Texas to Pikes Peak, Colorado), he should take extra ammunition along and re-zero when he arrives. In conclusion, for practical ranges up to and including 300 yards, corrections are usually unnecessary, since the shooter in a hunting situation will be hard pressed to find a shooting position steady enough to account for a mere inch and a half at 300 yards. If the shooter feels corrections are necessary, his wisest choice is to take enough ammunition along to re-zero at the new location or under different conditions.

APPLICATION OF THE TRAJECTORY TABLES

The trajectory tables provide several services to the reloader. From these tables the reloader can obtain information that allows him to choose the best bullet for any given shooting situation. Down range velocities, energies, and five or six choices for zeroing are immediately at his disposal. In the following paragraphs we will discuss some practical shooting situations that illustrate the many uses of the Ballistics Tables.

In the following example, we will assume a shooter has purchased a new rifle in 6mm Remington caliber. He wishes to choose the correct bullet

and zero the rifle at a range appropriate for his main objective, prairie dogs at ranges from 200 to 400 yards. The conditions this hunter will encounter will be hot temperatures and possibly a ten mile per hour wind. For this purpose he must choose an appropriate bullet-load combination that will give him the flattest trajectory with the least amount of wind drift. In this example we will choose three varmint bullets: the 70 grain SP, 75 grain HP, and 87 grain SP. By using a combination of the reloading data, the ballistics tables, and the wind drift tables, he can compare all three bullets and decide which bullet best suits his particular situation. The shooter will choose velocities from the reloading data that are one increment below maximum to allow for ammunition exposure to very warm temperatures. The corresponding velocities are 70 grain Sp - 3300 fps, 75 grain HP - 3200 fps, and 87 grain SP - 3100 fps. The following three excerpts from the Ballistics Tables (pages 10-433) are used to compare trajectories.

6MM CALIBER (.243" DIA.) 70 GRAIN SPIRE POINT
SECTIONAL DENSITY: .169 BALLISTIC COEFFICIENT: .262

RANGE	Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	2919	2569	2245	1945	1672	1432
ENERGY (ft.-lbs.)	1692	1324	1026	783	588	434	318
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.5"	-25.3"	-49.4"	-86.1"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.6"	-20.1"	-42.9"	-78.3"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.4"	0.0	-11.3"	-31.9"	-65.1"
TRAJ: 400 yds. zero	-1.5"	6.3"	10.1"	8.5"	0.0	-17.8"	-48.1"
TRAJ: 500 yds. zero	-1.5"	9.9"	17.2"	19.2"	14.2"	0.0	-26.8"
TRAJ: 600 yds. zero	-1.5"	14.4"	26.1"	32.6"	32.1"	22.3"	0.0

6MM CALIBER (.243" DIA.) 75 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .181 BALLISTIC COEFFICIENT: .294

RANGE	Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2867	2557	2268	1997	1748	1523
ENERGY (ft.-lbs.)	1705	1368	1089	856	664	509	386
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.8"	-25.7"	-49.4"	-84.5"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.7"	-20.2"	-42.5"	-76.2"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.5"	0.0	-11.3"	-31.3"	-62.8"
TRAJ: 400 yds. zero	-1.5"	6.4"	10.1"	8.5"	0.0	-17.2"	-45.9"
TRAJ: 500 yds. zero	-1.5"	9.9"	17.0"	18.8"	13.8"	0.0	-25.2"
TRAJ: 600 yds. zero	-1.5"	14.1"	25.4"	31.4"	30.6"	21.0"	0.0

6MM CALIBER (.243" DIA.) 87 GRAIN SPIRE POINT
SECTIONAL DENSITY: .210 BALLISTIC COEFFICIENT: .327

RANGE	Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2806	2530	2271	2027	1799	1590
ENERGY (ft.-lbs.)	1856	1521	1236	996	793	625	489
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.3"	-26.5"	-50.1"	-84.6"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.9"	-20.6"	-42.8"	-75.8"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.6"	0.0	-11.4"	-31.3"	-61.9"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.3"	8.5"	0.0	-17.0"	-44.9"
TRAJ: 500 yds. zero	-1.5"	10.0"	17.1"	18.8"	13.6"	0.0	-24.4"
TRAJ: 600 yds. zero	-1.5"	14.1"	25.3"	31.0"	29.9"	20.4"	0.0

By choosing a common zero for all three bullets (in this case we'll use a 200 yard zero), we can see that by the time each bullet reaches the range of 400 yards, the 70 grain SP still has a slightly flatter trajectory. That is, the 70 grain SP, at 400 yards is 20.1" lower than point of impact at 200 yards. The 75 grain hollow point drops 20.2" and the 87 grain spire point is 20.6"

lower. Now, by turning to the Wind Drift Tables (pages 434-448), we find that by comparing wind drifts at 400 yards (the ballistic coefficients used are the closest B.C.'s listed in the tables), the 87 grain SP gives the best results (70 grain SP: 18.8", 75 grain HP: 17.2", and 87 grain SP: 16.1").

BALLISTIC COEFFICIENT = .270 (70 grain SP)

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.
Velocity (fps)	3300	2930	2589	2273	1979
Wind Drift (in.)	0.0	1.0"	4.2"	9.9"	18.8"

BALLISTIC COEFFICIENT = .300 (75 grain HP)

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.
Velocity (fps)	3200	2873	2569	2284	2018
Wind Drift (in.)	0.0	.9"	3.9"	9.2"	17.2"

BALLISTIC COEFFICIENT = .330 (87 grain SP)

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.
Velocity (fps)	3100	2808	2535	2278	2035
Wind Drift (in.)	0.0	.9"	3.6"	8.6"	16.1"

Because the 87 grain SP also has the most remaining energy, plus a slight advantage in remaining velocity with less wind drift, we will select it as the best overall choice.

The next step is to decide on the optimum zero range. Since the targets are going to vary considerably in distances, the shooter must inspect the possibilities of zeroing at three different ranges: 200 yds., 300 yds., and 400 yds. The size of the intended target, a prairie dog, is approximately 10" in length and 2½" in diameter. If the 200 yard zero is chosen, our tables tell us the amount of hold over required at 400 yards (20.6") would allow too much room for error. Similarly, a 400 yard zero would create too much error in holding under the target at closer ranges. For a 300 yard zero, however, the maximum distance necessary to hold under is little more than the width of the prairie dog, and the maximum hold over is no more than the length of the target. These are estimations that the shooter can make with a relatively high degree of accuracy.

CHANGING ZEROES

Another problem that confronts many shooters is changing zeroes. For this situation we will choose a hunter who has his rifle zeroed at 100 yards, but wishes to be zeroed at 200 yards. His problem is a shooting range that is only 100 yards long. With the Hornady Tables, however, there is no problem. Since he is using the Hornady 150 grain SP at 2700 fps, he simply finds that part of the table for a .308" diameter 150 grain SP bullet and notes the 100 yard trajectory when zeroed at 200 yards (see example below). He finds that the trajectory is a plus 2.2". All that is left, is to adjust his sights to shoot 2.2" high at 100 yards and he is ready to go hunting.

30 CALIBER (.308" Dia.) 150 GRAIN SPIRE POINT
SECTIONAL DENSITY: .226 BALLISTIC COEFFICIENT: .338

RANGE	Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2439	2193	1962	1746	1549	1374
ENERGY (ft.-lbs.)	2428	1981	1602	1281	1015	799	629
TRAJ: 100 yd. zero	-1.5"	0.0	-4.4"	-16.0"	-36.7"	-68.9"	-115.6"
TRAJ: 200 yd. zero	-1.5"	2.2"	0.0	-9.4"	-28.0"	-57.9"	-102.6"
TRAJ: 300 yd. zero	-1.5"	5.3"	6.3"	0.0	-15.4"	-42.2"	-83.7"
TRAJ: 400 yd. zero	-1.5"	9.2"	14.0"	11.5"	0.0	-23.0"	-60.6"
TRAJ: 500 yd. zero	-1.5"	13.8"	23.2"	25.3"	18.4"	0.0	-33.0"
TRAJ: 600 yd. zero	-1.5"	19.3"	34.2"	41.8"	40.4"	27.5"	0.0

Another question this shooter might have is "Where do I hold if my target is at 250 yards and I'm zeroed at 200 yards?" By interpolating the data (zero at 200 yards and -9.4" at 300 yards) we can assume that our trajectory will be approximately one-half the drop (4.7") from 200 to 300 yards. This is not exact, but is close enough for hunting situations. Therefore, he must hold approximately 4.7" high to hit dead on at 250 yards.

TRAJECTORY TABLES (RIFLE & SINGLE SHOT PISTOL)

17 CALIBER (.172" Dia.) 25 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .121 BALLISTIC COEFFICIENT: .187

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	4100	3774	3472	3190	2927	2678	2443
ENERGY (ft.-lbs.)	933	791	669	565	475	398	331
TRAJ: 50 yds. zero	-1.5"	0.0	0.9"	1.1"	0.4"	-1.3"	-4.2"
TRAJ: 100 yds. zero	-1.5"	-0.4"	0.0	-0.3"	-1.4"	-3.6"	-6.9"
TRAJ: 150 yds. zero	-1.5"	-0.4"	0.2"	0.0	-1.0"	-3.1"	-6.4"
TRAJ: 200 yds. zero	-1.5"	-0.1"	0.7"	0.8"	0.0	-1.8"	-4.8"
TRAJ: 250 yds. zero	-1.5"	0.3"	1.4"	1.9"	1.4"	0.0	-2.6"
TRAJ: 300 yds. zero	-1.5"	0.7"	2.3"	3.2"	3.2"	2.2"	0.0
VELOCITY (fps)	4000	3681	3386	3110	2851	2607	2375
ENERGY (ft.-lbs.)	888	752	636	537	451	377	313
TRAJ: 50 yds. zero	-1.5"	0.0	0.9"	1.0"	0.2"	-1.7"	-4.9"
TRAJ: 100 yds. zero	-1.5"	-0.4"	0.0	-0.3"	-1.6"	-3.9"	-7.4"
TRAJ: 150 yds. zero	-1.5"	-0.3"	0.2"	0.0	-1.1"	-3.3"	-6.8"
TRAJ: 200 yds. zero	-1.5"	-0.0"	0.8"	0.8"	0.0	-1.9"	-5.1"
TRAJ: 250 yds. zero	-1.5"	0.3"	1.5"	2.0"	1.5"	0.0	-2.8"
TRAJ: 300 yds. zero	-1.5"	0.8"	2.5"	3.4"	3.4"	2.3"	0.0
VELOCITY (fps)	3900	3589	3299	3029	2775	2535	2307
ENERGY (ft.-lbs.)	844	715	604	509	427	357	295
TRAJ: 50 yds. zero	-1.5"	0.0	0.8"	0.8"	-0.1"	-2.1"	-5.5"
TRAJ: 100 yds. zero	-1.5"	-0.4"	0.0	-0.4"	-1.7"	-4.2"	-8.0"
TRAJ: 150 yds. zero	-1.5"	-0.3"	0.3"	0.0	-1.2"	-3.5"	-7.2"
TRAJ: 200 yds. zero	-1.5"	0.0	0.9"	0.9"	0.0	-2.0"	-5.4"
TRAJ: 250 yds. zero	-1.5"	0.4"	1.7"	2.1"	1.6"	0.0	-3.0"
TRAJ: 300 yds. zero	-1.5"	0.9"	2.7"	3.6"	3.6"	2.5"	0.0
VELOCITY (fps)	3800	3496	3213	2948	2698	2462	2238
ENERGY (ft.-lbs.)	801	678	573	482	404	336	278
TRAJ: 50 yds. zero	-1.5"	0.0	0.8"	0.7"	-0.3"	-2.6"	-6.3"
TRAJ: 100 yds. zero	-1.5"	-0.4"	0.0	-0.4"	-1.9"	-4.5"	-8.6"
TRAJ: 150 yds. zero	-1.5"	-0.2"	0.3"	0.0	-1.3"	-3.8"	-7.7"
TRAJ: 200 yds. zero	-1.5"	0.1"	0.9"	1.0"	0.0	-2.2"	-5.8"
TRAJ: 250 yds. zero	-1.5"	0.5"	1.8"	2.3"	1.7"	0.0	-3.2"
TRAJ: 300 yds. zero	-1.5"	1.0"	2.9"	3.9"	3.8"	2.6"	0.0
VELOCITY (fps)	3700	3403	3126	2866	2621	2389	2168
ENERGY (ft.-lbs.)	760	643	542	456	381	317	261
TRAJ: 50 yds. zero	-1.5"	0.0	0.7"	0.6"	-0.6"	-3.1"	-7.1"
TRAJ: 100 yds. zero	-1.5"	-0.4"	0.0	-0.5"	-2.1"	-4.9"	-9.3"
TRAJ: 150 yds. zero	-1.5"	-0.2"	0.3"	0.0	-1.4"	-4.1"	-8.3"
TRAJ: 200 yds. zero	-1.5"	0.1"	1.0"	1.1"	0.0	-2.3"	-6.2"
TRAJ: 250 yds. zero	-1.5"	0.6"	2.0"	2.4"	1.9"	0.0	-3.4"
TRAJ: 300 yds. zero	-1.5"	1.2"	3.1"	4.1"	4.1"	2.8"	0.0
VELOCITY (fps)	3600	3310	3039	2784	2543	2315	2098
ENERGY (ft.-lbs.)	719	608	513	430	359	297	244
TRAJ: 50 yds. zero	-1.5"	0.0	0.7"	0.5"	-0.9"	-3.6"	-7.9"
TRAJ: 100 yds. zero	-1.5"	-0.4"	0.0	-0.6"	-2.3"	-5.4"	-10.0"
TRAJ: 150 yds. zero	-1.5"	-0.2"	0.4"	0.0	-1.5"	-4.4"	-8.9"
TRAJ: 200 yds. zero	-1.5"	0.2"	1.2"	1.1"	0.0	-2.5"	-6.6"
TRAJ: 250 yds. zero	-1.5"	0.7"	2.1"	2.6"	2.0"	0.0	-3.6"
TRAJ: 300 yds. zero	-1.5"	1.3"	3.3"	4.4"	4.4"	3.0"	0.0
VELOCITY (fps)	3500	3217	2951	2702	2465	2241	2028
ENERGY (ft.-lbs.)	680	574	483	405	337	279	228
TRAJ: 50 yds. zero	-1.5"	0.0	0.7"	0.3"	-1.2"	-4.2"	-8.9"
TRAJ: 100 yds. zero	-1.5"	-0.3"	0.0	-0.7"	-2.5"	-5.8"	-10.9"
TRAJ: 150 yds. zero	-1.5"	-0.1"	0.4"	0.0	-1.6"	-4.7"	-9.5"
TRAJ: 200 yds. zero	-1.5"	0.3"	1.3"	1.2"	0.0	-2.7"	-7.1"
TRAJ: 250 yds. zero	-1.5"	0.8"	2.3"	2.8"	2.1"	0.0	-3.9"
TRAJ: 300 yds. zero	-1.5"	1.5"	3.6"	4.8"	4.7"	3.2"	0.0
VELOCITY (fps)	3400	3123	2864	2619	2386	2166	1958
ENERGY (ft.-lbs.)	642	541	455	381	316	260	213
TRAJ: 50 yds. zero	-1.5"	0.0	0.6"	0.2"	-1.6"	-4.8"	-9.9"
TRAJ: 100 yds. zero	-1.5"	-0.3"	0.0	-0.8"	-2.8"	-6.3"	-11.8"
TRAJ: 150 yds. zero	-1.5"	-0.1"	0.5"	0.0	-1.8"	-5.1"	-10.2"
TRAJ: 200 yds. zero	-1.5"	0.4"	1.4"	1.3"	0.0	-2.9"	-7.6"
TRAJ: 250 yds. zero	-1.5"	1.0"	2.5"	3.0"	2.3"	0.0	-4.1"
TRAJ: 300 yds. zero	-1.5"	1.7"	3.9"	5.1"	5.0"	3.5"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	3300	3030	2775	2535	2307	2091	1887
ENERGY (ft.-lbs.)	604	509	428	357	295	243	198
TRAJ: 50 yds. zero	-1.5"	0.0	0.6"	-0.0"	-2.0"	-5.5"	-11.1"
TRAJ: 100 yds. zero	-1.5"	-0.3"	0.0	-0.9"	-3.1"	-6.9"	-12.7"
TRAJ: 150 yds. zero	-1.5"	0.0	0.6"	0.0	-1.9"	-5.5"	-11.0"
TRAJ: 200 yds. zero	-1.5"	0.5"	1.5"	1.4"	0.0	-3.1"	-8.2"
TRAJ: 250 yds. zero	-1.5"	1.1"	2.8"	3.3"	2.5"	0.0	-4.5"
TRAJ: 300 yds. zero	-1.5"	1.8"	4.2"	5.5"	5.4"	3.7"	0.0
VELOCITY (fps)	3200	2936	2687	2451	2227	2016	1816
ENERGY (ft.-lbs.)	568	478	401	333	275	225	183
TRAJ: 50 yds. zero	-1.5"	0.0	0.5"	-0.2"	-2.4"	-6.3"	-12.4"
TRAJ: 100 yds. zero	-1.5"	-0.2"	0.0	-1.0"	-3.4"	-7.5"	-13.9"
TRAJ: 150 yds. zero	-1.5"	0.1"	0.6"	0.0	-2.1"	-5.9"	-11.9"
TRAJ: 200 yds. zero	-1.5"	0.6"	1.7"	1.6"	0.0	-3.3"	-8.8"
TRAJ: 250 yds. zero	-1.5"	1.3"	3.0"	3.6"	2.7"	0.0	-4.8"
TRAJ: 300 yds. zero	-1.5"	2.1"	4.6"	6.0"	5.9"	4.0"	0.0

22 CALIBER (.222" Dia.) 40 GRAIN JET
SECTIONAL DENSITY: .116 BALLISTIC COEFFICIENT: .104

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	3100	2646	2235	1862	1534	1268	1085
ENERGY (ft.-lbs.)	853	622	443	308	209	143	104
TRAJ: 50 yds. zero	-1.5"	0.0	0.2"	-1.3"	-5.3"	-13.1"	-26.4"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.6"	-5.8"	-13.8"	-27.2"
TRAJ: 150 yds. zero	-1.5"	0.4"	1.1"	0.0	-3.6"	-11.0"	-23.9"
TRAJ: 200 yds. zero	-1.5"	1.3"	2.9"	2.7"	0.0	-6.5"	-18.4"
TRAJ: 250 yds. zero	-1.5"	2.6"	5.5"	6.6"	5.2"	0.0	-10.7"
TRAJ: 300 yds. zero	-1.5"	4.4"	9.1"	11.9"	12.3"	8.9"	0.0
VELOCITY (fps)	3000	2556	2153	1789	1472	1222	1057
ENERGY (ft.-lbs.)	799	580	411	284	192	133	99
TRAJ: 50 yds. zero	-1.5"	0.0	0.2"	-1.6"	-6.1"	-14.7"	-29.1"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.8"	-6.4"	-15.1"	-29.6"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.2"	0.0	-4.0"	-12.0"	-25.9"
TRAJ: 200 yds. zero	-1.5"	1.5"	3.2"	3.0"	0.0	-7.1"	-20.0"
TRAJ: 250 yds. zero	-1.5"	2.9"	6.0"	7.2"	5.6"	0.0	-11.5"
TRAJ: 300 yds. zero	-1.5"	4.9"	9.9"	13.0"	13.3"	9.6"	0.0
VELOCITY (fps)	2900	2465	2070	1716	1412	1178	1031
ENERGY (ft.-lbs.)	747	540	381	261	177	123	94
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.9"	-6.9"	-16.4"	-32.1"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-2.0"	-7.1"	-16.5"	-32.2"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.4"	0.0	-4.4"	-13.1"	-28.2"
TRAJ: 200 yds. zero	-1.5"	1.7"	3.5"	3.3"	0.0	-7.7"	-21.6"
TRAJ: 250 yds. zero	-1.5"	3.3"	6.6"	7.9"	6.2"	0.0	-12.4"
TRAJ: 300 yds. zero	-1.5"	5.3"	10.7"	14.1"	14.4"	10.3"	0.0
VELOCITY (fps)	2800	2375	1988	1643	1353	1139	1008
ENERGY (ft.-lbs.)	696	501	351	240	163	115	90
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.3"	-7.9"	-18.3"	-35.3"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-2.3"	-7.8"	-18.1"	-35.1"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.5"	0.0	-4.8"	-14.4"	-30.6"
TRAJ: 200 yds. zero	-1.5"	2.0"	3.9"	3.6"	0.0	-8.4"	-23.4"
TRAJ: 250 yds. zero	-1.5"	3.7"	7.3"	8.6"	6.7"	0.0	-13.3"
TRAJ: 300 yds. zero	-1.5"	5.9"	11.7"	15.3"	15.6"	11.1"	0.0
VELOCITY (fps)	2700	2284	1906	1572	1297	1103	986
ENERGY (ft.-lbs.)	647	463	323	220	149	108	86
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.8"	-9.0"	-20.4"	-38.8"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.5"	-8.6"	-19.9"	-38.2"
TRAJ: 150 yds. zero	-1.5"	0.9"	1.7"	0.0	-5.3"	-15.7"	-33.2"
TRAJ: 200 yds. zero	-1.5"	2.2"	4.3"	3.9"	0.0	-9.2"	-25.3"
TRAJ: 250 yds. zero	-1.5"	4.1"	8.0"	9.4"	7.3"	0.0	-14.3"
TRAJ: 300 yds. zero	-1.5"	6.5"	12.7"	16.6"	16.9"	11.9"	0.0
VELOCITY (fps)	2600	2193	1824	1503	1244	1070	965
ENERGY (ft.-lbs.)	600	427	296	200	137	102	83
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-3.3"	-10.2"	-22.7"	-42.6"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.8"	-9.5"	-21.9"	-41.6"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.9"	0.0	-5.8"	-17.2"	-36.0"
TRAJ: 200 yds. zero	-1.5"	2.5"	4.8"	4.3"	0.0	-10.0"	-27.3"
TRAJ: 250 yds. zero	-1.5"	4.5"	8.8"	10.3"	8.0"	0.0	-15.3"
TRAJ: 300 yds. zero	-1.5"	7.1"	13.9"	18.0"	18.2"	12.7"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2500	2102	1743	1435	1195	1041	946
ENERGY (ft.-lbs.)	555	392	270	183	127	96	79
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.9"	-11.6"	-25.3"	-46.7"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-3.1"	-10.6"	-24.1"	-45.2"
TRAJ: 150 yds. zero	-1.5"	1.3"	2.1"	0.0	-6.4"	-18.9"	-38.9"
TRAJ: 200 yds. zero	-1.5"	2.9"	5.3"	4.8"	0.0	-10.9"	-29.4"
TRAJ: 250 yds. zero	-1.5"	5.1"	9.6"	11.3"	8.7"	0.0	-16.3"
TRAJ: 300 yds. zero	-1.5"	7.8"	15.1"	19.5"	19.6"	13.6"	0.0
VELOCITY (fps)	2400	2011	1663	1369	1149	1014	927
ENERGY (ft.-lbs.)	512	359	246	166	117	91	76
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.5"	-13.1"	-28.2"	-51.1"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-3.5"	-11.7"	-26.5"	-49.1"
TRAJ: 150 yds. zero	-1.5"	1.5"	2.3"	0.0	-7.0"	-20.6"	-42.1"
TRAJ: 200 yds. zero	-1.5"	3.3"	5.9"	5.3"	0.0	-11.8"	-31.5"
TRAJ: 250 yds. zero	-1.5"	5.6"	10.6"	12.4"	9.4"	0.0	-17.3"
TRAJ: 300 yds. zero	-1.5"	8.5"	16.4"	21.0"	21.0"	14.4"	0.0
VELOCITY (fps)	2300	1921	1585	1307	1109	990	909
ENERGY (ft.-lbs.)	470	328	223	152	109	87	73
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-5.3"	-14.8"	-31.3"	-55.9"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-4.0"	-13.0"	-29.1"	-53.3"
TRAJ: 150 yds. zero	-1.5"	1.8"	2.6"	0.0	-7.8"	-22.5"	-45.4"
TRAJ: 200 yds. zero	-1.5"	3.7"	6.5"	5.8"	0.0	-12.8"	-33.7"
TRAJ: 250 yds. zero	-1.5"	6.3"	11.6"	13.5"	10.2"	0.0	-18.4"
TRAJ: 300 yds. zero	-1.5"	9.3"	17.8"	22.7"	22.5"	15.3"	0.0
VELOCITY (fps)	2200	1831	1508	1248	1073	967	892
ENERGY (ft.-lbs.)	430	298	202	138	102	83	71
TRAJ: 50 yds. zero	-1.5"	0.0	-1.1"	-6.1"	-16.7"	-34.7"	-61.1"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-4.4"	-14.5"	-31.8"	-57.7"
TRAJ: 150 yds. zero	-1.5"	2.0"	3.0"	0.0	-8.6"	-24.5"	-48.9"
TRAJ: 200 yds. zero	-1.5"	4.2"	7.2"	6.4"	0.0	-13.7"	-36.0"
TRAJ: 250 yds. zero	-1.5"	6.9"	12.7"	14.7"	11.0"	0.0	-19.5"
TRAJ: 300 yds. zero	-1.5"	10.2"	19.2"	24.4"	24.0"	16.3"	0.0
VELOCITY (fps)	2100	1742	1433	1194	1040	945	875
ENERGY (ft.-lbs.)	392	269	182	127	96	79	68
TRAJ: 50 yds. zero	-1.5"	0.0	-1.4"	-7.1"	-18.9"	-38.3"	-66.7"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-5.0"	-16.1"	-34.8"	-62.5"
TRAJ: 150 yds. zero	-1.5"	2.4"	3.3"	0.0	-9.4"	-26.5"	-52.5"
TRAJ: 200 yds. zero	-1.5"	4.7"	8.0"	7.1"	0.0	-14.7"	-38.4"
TRAJ: 250 yds. zero	-1.5"	7.7"	13.9"	15.9"	11.8"	0.0	-20.7"
TRAJ: 300 yds. zero	-1.5"	11.1"	20.8"	26.2"	25.6"	17.2"	0.0
VELOCITY (fps)	2000	1654	1361	1144	1011	925	858
ENERGY (ft.-lbs.)	355	243	165	116	91	76	65
TRAJ: 50 yds. zero	-1.5"	0.0	-1.7"	-8.2"	-21.2"	-42.3"	-72.6"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-5.6"	-17.8"	-38.0"	-67.5"
TRAJ: 150 yds. zero	-1.5"	2.7"	3.7"	0.0	-10.3"	-28.7"	-56.3"
TRAJ: 200 yds. zero	-1.5"	5.3"	8.9"	7.7"	0.0	-15.8"	-40.8"
TRAJ: 250 yds. zero	-1.5"	8.5"	15.2"	17.2"	12.6"	0.0	-21.9"
TRAJ: 300 yds. zero	-1.5"	12.1"	22.5"	28.1"	27.2"	18.2"	0.0
VELOCITY (fps)	1900	1567	1293	1100	984	905	842
ENERGY (ft.-lbs.)	321	218	148	107	86	73	63
TRAJ: 50 yds. zero	-1.5"	0.0	-2.1"	-9.4"	-23.8"	-46.6"	-79.1"
TRAJ: 100 yds. zero	-1.5"	1.0"	0.0	-6.3"	-19.6"	-41.4"	-72.8"
TRAJ: 150 yds. zero	-1.5"	3.1"	4.2"	0.0	-11.2"	-30.9"	-60.3"
TRAJ: 200 yds. zero	-1.5"	5.9"	9.8"	8.4"	0.0	-16.9"	-43.4"
TRAJ: 250 yds. zero	-1.5"	9.3"	16.5"	18.5"	13.5"	0.0	-23.2"
TRAJ: 300 yds. zero	-1.5"	13.2"	24.3"	30.1"	28.9"	19.3"	0.0
VELOCITY (fps)	1800	1482	1229	1061	959	886	826
ENERGY (ft.-lbs.)	288	195	134	100	82	70	61
TRAJ: 50 yds. zero	-1.5"	0.0	-2.5"	-10.8"	-26.6"	-51.2"	-86.0"
TRAJ: 100 yds. zero	-1.5"	1.3"	0.0	-7.0"	-21.6"	-44.9"	-78.5"
TRAJ: 150 yds. zero	-1.5"	3.6"	4.7"	0.0	-12.2"	-33.2"	-64.4"
TRAJ: 200 yds. zero	-1.5"	6.6"	10.8"	9.1"	0.0	-18.0"	-46.1"
TRAJ: 250 yds. zero	-1.5"	10.2"	18.0"	19.9"	14.4"	0.0	-24.5"
TRAJ: 300 yds. zero	-1.5"	14.3"	26.2"	32.2"	30.8"	20.4"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1700	1399	1170	1026	935	867	810
ENERGY (ft.-lbs.)	257	174	121	94	78	67	58
TRAJ: 50 yds. zero	-1.5"	0.0	-3.0"	-12.3"	-29.6"	-56.2"	-93.4"
TRAJ: 100 yds. zero	-1.5"	1.5"	0.0	-7.8"	-23.6"	-48.7"	-84.4"
TRAJ: 150 yds. zero	-1.5"	4.1"	5.2"	0.0	-13.2"	-35.7"	-68.8"
TRAJ: 200 yds. zero	-1.5"	7.4"	11.8"	9.9"	0.0	-19.2"	-49.0"
TRAJ: 250 yds. zero	-1.5"	11.2"	19.5"	21.4"	15.4"	0.0	-26.0"
TRAJ: 300 yds. zero	-1.5"	15.6"	28.1"	34.4"	32.7"	21.7"	0.0
VELOCITY (fps)	1600	1319	1116	994	912	848	793
ENERGY (ft.-lbs.)	227	154	111	88	74	64	56
TRAJ: 50 yds. zero	-1.5"	0.0	-3.5"	-14.0"	-32.8"	-61.5"	-101.4"
TRAJ: 100 yds. zero	-1.5"	1.8"	0.0	-8.7"	-25.8"	-52.7"	-90.8"
TRAJ: 150 yds. zero	-1.5"	4.7"	5.8"	0.0	-14.2"	-38.3"	-73.5"
TRAJ: 200 yds. zero	-1.5"	8.2"	12.9"	10.7"	0.0	-20.5"	-52.2"
TRAJ: 250 yds. zero	-1.5"	12.3"	21.1"	23.0"	16.4"	0.0	-27.6"
TRAJ: 300 yds. zero	-1.5"	16.9"	30.3"	36.8"	34.8"	23.0"	0.0
VELOCITY (fps)	1500	1242	1069	964	890	829	777
ENERGY (ft.-lbs.)	200	137	101	83	70	61	54
TRAJ: 50 yds. zero	-1.5"	0.0	-4.1"	-15.8"	-36.4"	-67.4"	-110.1"
TRAJ: 100 yds. zero	-1.5"	2.1"	0.0	-9.6"	-28.1"	-57.0"	-97.7"
TRAJ: 150 yds. zero	-1.5"	5.3"	6.4"	0.0	-15.3"	-41.1"	-78.6"
TRAJ: 200 yds. zero	-1.5"	9.1"	14.0"	11.5"	0.0	-21.9"	-55.6"
TRAJ: 250 yds. zero	-1.5"	13.5"	22.8"	24.6"	17.5"	0.0	-29.3"
TRAJ: 300 yds. zero	-1.5"	18.4"	32.6"	39.3"	37.1"	24.4"	0.0

22 CALIBER (.223" Dia. or .224" Dia.) 45 GRAIN HORNET
SECTIONAL DENSITY: .129 BALLISTIC COEFFICIENT: .202

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	3700	3424	3166	2923	2692	2474	2265
ENERGY (ft.-lbs.)	1368	1171	1001	853	724	611	513
TRAJ: 50 yds. zero	-1.5"	0.0	0.8"	0.6"	-0.5"	-2.8"	-6.6"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-0.5"	-2.0"	-4.7"	-8.8"
TRAJ: 150 yds. zero	-1.5"	0.2"	0.3"	0.0	-1.3"	-3.9"	-7.9"
TRAJ: 200 yds. zero	-1.5"	0.1"	1.0"	1.0"	0.0	-2.2"	-5.8"
TRAJ: 250 yds. zero	-1.5"	0.6"	1.9"	2.3"	1.8"	0.0	-3.2"
TRAJ: 300 yds. zero	-1.5"	1.1"	2.9"	3.9"	3.9"	2.7"	0.0
VELOCITY (fps)	3600	3331	3078	2840	2614	2398	2193
ENERGY (ft.-lbs.)	1295	1108	947	806	682	575	481
TRAJ: 50 yds. zero	-1.5"	0.0	0.7"	0.5"	-0.8"	-3.3"	-7.4"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-0.6"	-2.2"	-5.1"	-9.5"
TRAJ: 150 yds. zero	-1.5"	0.2"	0.4"	0.0	-1.5"	-4.2"	-8.4"
TRAJ: 200 yds. zero	-1.5"	0.2"	1.1"	1.1"	0.0	-2.4"	-6.2"
TRAJ: 250 yds. zero	-1.5"	0.7"	2.0"	2.5"	1.9"	0.0	-3.4"
TRAJ: 300 yds. zero	-1.5"	1.2"	3.2"	4.2"	4.2"	2.8"	0.0
VELOCITY (fps)	3500	3237	2990	2756	2534	2323	2121
ENERGY (ft.-lbs.)	1224	1047	893	759	642	539	450
TRAJ: 50 yds. zero	-1.5"	0.0	0.7"	0.4"	-1.1"	-3.9"	-8.3"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-0.6"	-2.4"	-5.6"	-10.3"
TRAJ: 150 yds. zero	-1.5"	0.1"	0.4"	0.0	-1.6"	-4.5"	-9.0"
TRAJ: 200 yds. zero	-1.5"	0.3"	1.2"	1.2"	0.0	-2.5"	-6.7"
TRAJ: 250 yds. zero	-1.5"	0.8"	2.2"	2.7"	2.0"	0.0	-3.6"
TRAJ: 300 yds. zero	-1.5"	1.4"	3.4"	4.5"	4.5"	3.0"	0.0
VELOCITY (fps)	3400	3143	2901	2672	2454	2246	2049
ENERGY (ft.-lbs.)	1155	987	841	713	602	504	419
TRAJ: 50 yds. zero	-1.5"	0.0	0.6"	0.2"	-1.4"	-4.5"	-9.3"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-0.7"	-2.7"	-6.1"	-11.2"
TRAJ: 150 yds. zero	-1.5"	0.1"	0.5"	0.0	-1.7"	-4.8"	-9.7"
TRAJ: 200 yds. zero	-1.5"	0.4"	1.3"	1.3"	0.0	-2.7"	-7.2"
TRAJ: 250 yds. zero	-1.5"	0.9"	2.4"	2.9"	2.2"	0.0	-3.9"
TRAJ: 300 yds. zero	-1.5"	1.6"	3.7"	4.9"	4.8"	3.3"	0.0
VELOCITY (fps)	3300	3049	2812	2587	2374	2170	1976
ENERGY (ft.-lbs.)	1088	929	790	669	563	470	390
TRAJ: 50 yds. zero	-1.5"	0.0	0.6"	0.0	-1.8"	-5.2"	-10.4"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-0.8"	-2.9"	-6.6"	-12.1"
TRAJ: 150 yds. zero	-1.5"	0.0	0.5"	0.0	-1.8"	-5.2"	-10.5"
TRAJ: 200 yds. zero	-1.5"	0.5"	1.5"	1.4"	0.0	-2.9"	-7.7"
TRAJ: 250 yds. zero	-1.5"	1.0"	2.6"	3.1"	2.3"	0.0	-4.2"
TRAJ: 300 yds. zero	-1.5"	1.7"	4.0"	5.2"	5.1"	3.5"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	3200	2955	2723	2503	2293	2093	1903
ENERGY (ft.-lbs.)	1023	872	741	626	525	438	362
TRAJ: 50 yds. zero	-1.5"	0.0	0.5"	-0.2"	-2.2"	-5.9"	-11.7"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-0.9"	-3.2"	-7.2"	-13.2"
TRAJ: 150 yds. zero	-1.5"	0.1"	0.6"	0.0	-2.0"	-5.7"	-11.3"
TRAJ: 200 yds. zero	-1.5"	0.6"	1.6"	1.5"	0.0	-3.2"	-8.3"
TRAJ: 250 yds. zero	-1.5"	1.2"	2.9"	3.4"	2.5"	0.0	-4.5"
TRAJ: 300 yds. zero	-1.5"	1.9"	4.4"	5.7"	5.5"	3.8"	0.0
VELOCITY (fps)	3100	2860	2633	2417	2211	2016	1831
ENERGY (ft.-lbs.)	960	817	693	584	489	406	335
TRAJ: 50 yds. zero	-1.5"	0.0	0.4"	-0.4"	-2.7"	-6.8"	-13.0"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-1.0"	-3.6"	-7.9"	-14.3"
TRAJ: 150 yds. zero	-1.5"	0.1"	0.7"	0.0	-2.2"	-6.1"	-12.3"
TRAJ: 200 yds. zero	-1.5"	0.7"	1.8"	1.6"	0.0	-3.4"	-9.0"
TRAJ: 250 yds. zero	-1.5"	1.4"	3.1"	3.7"	2.7"	0.0	-4.9"
TRAJ: 300 yds. zero	-1.5"	2.2"	4.8"	6.1"	6.0"	4.1"	0.0
VELOCITY (fps)	3000	2766	2543	2331	2130	1938	1758
ENERGY (ft.-lbs.)	899	764	646	543	453	375	309
TRAJ: 50 yds. zero	-1.5"	0.0	0.4"	-0.8"	-3.2"	-7.7"	-14.5"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-1.2"	-3.9"	-8.6"	-15.6"
TRAJ: 150 yds. zero	-1.5"	0.2"	0.8"	0.0	-2.4"	-6.7"	-13.3"
TRAJ: 200 yds. zero	-1.5"	0.8"	2.0"	1.8"	0.0	-3.7"	-9.7"
TRAJ: 250 yds. zero	-1.5"	1.5"	3.4"	4.0"	3.0"	0.0	-5.3"
TRAJ: 300 yds. zero	-1.5"	2.4"	5.2"	6.6"	6.5"	4.4"	0.0
VELOCITY (fps)	2900	2671	2453	2245	2048	1861	1686
ENERGY (ft.-lbs.)	840	713	601	504	419	346	284
TRAJ: 50 yds. zero	-1.5"	0.0	0.3"	-0.9"	-3.8"	-8.8"	-16.2"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-1.3"	-4.3"	-9.5"	-17.1"
TRAJ: 150 yds. zero	-1.5"	0.3"	0.9"	0.0	-2.6"	-7.3"	-14.5"
TRAJ: 200 yds. zero	-1.5"	0.9"	2.2"	1.9"	0.0	-4.0"	-10.6"
TRAJ: 250 yds. zero	-1.5"	1.8"	3.8"	4.4"	3.2"	0.0	-5.7"
TRAJ: 300 yds. zero	-1.5"	2.7"	5.7"	7.2"	7.0"	4.8"	0.0
VELOCITY (fps)	2800	2576	2363	2159	1966	1784	1615
ENERGY (ft.-lbs.)	783	663	558	466	386	318	261
TRAJ: 50 yds. zero	-1.5"	0.0	0.2"	-1.2"	-4.4"	-9.9"	-18.2"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-1.5"	-4.8"	-10.4"	-18.7"
TRAJ: 150 yds. zero	-1.5"	0.4"	1.0"	0.0	-2.8"	-7.9"	-15.8"
TRAJ: 200 yds. zero	-1.5"	1.1"	2.4"	2.1"	0.0	-4.4"	-11.5"
TRAJ: 250 yds. zero	-1.5"	2.0"	4.2"	4.8"	3.5"	0.0	-6.3"
TRAJ: 300 yds. zero	-1.5"	3.0"	6.2"	7.9"	7.7"	5.2"	0.0
VELOCITY (fps)	2700	2481	2272	2073	1885	1708	1545
ENERGY (ft.-lbs.)	728	515	516	429	355	292	238
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.6"	-5.1"	-11.2"	-20.3"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.6"	-5.3"	-11.4"	-20.6"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.1"	0.0	-3.1"	-8.7"	-17.3"
TRAJ: 200 yds. zero	-1.5"	1.3"	2.7"	2.3"	0.0	-4.8"	-12.6"
TRAJ: 250 yds. zero	-1.5"	2.2"	4.6"	5.2"	3.8"	0.0	-6.8"
TRAJ: 300 yds. zero	-1.5"	3.4"	6.9"	8.6"	8.4"	5.7"	0.0
VELOCITY (fps)	2600	2386	2181	1987	1804	1633	1477
ENERGY (ft.-lbs.)	675	569	475	394	325	266	218
TRAJ: 50 yds. zero	-1.5"	0.0	-0.0"	-1.9"	-6.0"	-12.7"	-22.7"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.8"	-5.9"	-12.6"	-22.6"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.2"	0.0	-3.4"	-9.6"	-19.0"
TRAJ: 200 yds. zero	-1.5"	1.5"	3.0"	2.6"	0.0	-5.3"	-13.8"
TRAJ: 250 yds. zero	-1.5"	2.5"	5.1"	5.7"	4.2"	0.0	-7.5"
TRAJ: 300 yds. zero	-1.5"	3.8"	7.5"	9.5"	9.2"	6.2"	0.0
VELOCITY (fps)	2500	2290	2091	1901	1724	1559	1410
ENERGY (ft.-lbs.)	624	524	437	361	297	243	199
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.3"	-6.9"	-14.4"	-25.5"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.1"	-6.6"	-14.0"	-25.0"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-3.8"	-10.5"	-20.9"
TRAJ: 200 yds. zero	-1.5"	1.7"	3.3"	2.8"	0.0	-5.8"	-15.2"
TRAJ: 250 yds. zero	-1.5"	2.9"	5.6"	6.3"	4.6"	0.0	-8.2"
TRAJ: 300 yds. zero	-1.5"	4.2"	8.3"	10.4"	10.1"	6.9"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2400	2195	2000	1816	1644	1487	1346
ENERGY (ft.-lbs.)	575	481	400	330	270	221	181
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-2.8"	-7.9"	-16.3"	-28.6"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.3"	-7.3"	-15.5"	-27.7"
TRAJ: 150 yds. zero	-1.5"	0.9"	1.6"	0.0	-4.2"	-11.6"	-23.0"
TRAJ: 200 yds. zero	-1.5"	2.0"	3.7"	3.1"	0.0	-6.4"	-16.7"
TRAJ: 250 yds. zero	-1.5"	3.3"	6.2"	7.0"	5.1"	0.0	-9.1"
TRAJ: 300 yds. zero	-1.5"	4.8"	9.2"	11.5"	11.1"	7.5"	0.0
VELOCITY (fps)	2300	2100	1910	1732	1567	1417	1286
ENERGY (ft.-lbs.)	528	441	364	300	245	201	165
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.3"	-9.1"	-18.4"	-32.1"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.6"	-8.2"	-17.3"	-30.7"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.8"	0.0	-4.7"	-12.9"	-25.4"
TRAJ: 200 yds. zero	-1.5"	2.3"	4.1"	3.5"	0.0	-7.1"	-18.5"
TRAJ: 250 yds. zero	-1.5"	3.7"	6.9"	7.7"	5.6"	0.0	-10.0"
TRAJ: 300 yds. zero	-1.5"	5.4"	10.2"	12.7"	12.3"	8.3"	0.0
VELOCITY (fps)	2200	2005	1821	1648	1491	1350	1229
ENERGY (ft.-lbs.)	484	402	331	271	222	182	151
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.0"	-10.5"	-20.9"	-36.1"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-3.0"	-9.1"	-19.2"	-34.1"
TRAJ: 150 yds. zero	-1.5"	1.3"	2.0"	0.0	-5.2"	-14.3"	-28.2"
TRAJ: 200 yds. zero	-1.5"	2.6"	4.6"	3.9"	0.0	-7.8"	-20.4"
TRAJ: 250 yds. zero	-1.5"	4.2"	7.7"	8.6"	6.3"	0.0	-11.1"
TRAJ: 300 yds. zero	-1.5"	6.0"	11.4"	14.1"	13.6"	9.2"	0.0
VELOCITY (fps)	2100	1910	1732	1567	1417	1286	1176
ENERGY (ft.-lbs.)	441	365	300	245	201	165	138
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-4.7"	-12.0"	-23.7"	-40.7"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.4"	-10.3"	-21.5"	-38.0"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.2"	0.0	-5.8"	-15.9"	-31.3"
TRAJ: 200 yds. zero	-1.5"	3.0"	5.1"	4.3"	0.0	-8.7"	-22.7"
TRAJ: 250 yds. zero	-1.5"	4.7"	8.6"	9.6"	7.0"	0.0	-12.2"
TRAJ: 300 yds. zero	-1.5"	6.8"	12.7"	15.7"	15.1"	10.2"	0.0

22 CALIBER (.224" Dia.) 50 GRAIN SX SPIRE POINT OR SPIRE POINT
SECTIONAL DENSITY: .142 BALLISTIC COEFFICIENT: .214

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	4000	3458	2980	2549	2157	1802	1492
ENERGY (ft.-lbs.)	1776	1328	986	721	517	361	247
TRAJ: 100 yds. zero	-1.5"	0.0	-1.4"	-6.8"	-17.5"	-35.8"	-64.9"
TRAJ: 200 yds. zero	-1.5"	0.7"	0.0	-4.7"	-14.7"	-32.2"	-60.6"
TRAJ: 300 yds. zero	-1.5"	2.3"	3.1"	0.0	-8.5"	-24.5"	-51.3"
TRAJ: 400 yds. zero	-1.5"	4.4"	7.3"	6.4"	0.0	-13.9"	-38.6"
TRAJ: 500 yds. zero	-1.5"	7.2"	12.9"	14.7"	11.1"	0.0	-21.9"
TRAJ: 600 yds. zero	-1.5"	10.8"	20.2"	25.7"	25.7"	18.3"	0.0
VELOCITY (fps)	3900	3370	2901	2478	2092	1745	1443
ENERGY (ft.-lbs.)	1688	1261	934	682	486	338	231
TRAJ: 100 yds. zero	-1.5"	0.0	-1.6"	-7.3"	-18.8"	-38.2"	-69.2"
TRAJ: 200 yds. zero	-1.5"	0.8"	0.0	-4.9"	-15.6"	-34.2"	-64.5"
TRAJ: 300 yds. zero	-1.5"	2.4"	3.3"	0.0	-9.0"	-26.0"	-54.6"
TRAJ: 400 yds. zero	-1.5"	4.7"	7.8"	6.7"	0.0	-14.8"	-41.1"
TRAJ: 500 yds. zero	-1.5"	7.6"	13.7"	15.6"	11.8"	0.0	-23.4"
TRAJ: 600 yds. zero	-1.5"	11.5"	21.5"	27.3"	27.4"	19.5"	0.0
VELOCITY (fps)	3800	3282	2822	2406	2027	1687	1396
ENERGY (ft.-lbs.)	1603	1196	884	643	456	316	216
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.9"	-20.1"	-40.8"	-73.9"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.3"	-16.6"	-36.4"	-68.7"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.5"	0.0	-9.6"	-27.7"	-58.2"
TRAJ: 400 yds. zero	-1.5"	5.0"	8.3"	7.2"	0.0	-15.7"	-43.8"
TRAJ: 500 yds. zero	-1.5"	8.2"	14.6"	16.6"	12.6"	0.0	-25.0"
TRAJ: 600 yds. zero	-1.5"	12.3"	22.9"	29.1"	29.2"	20.8"	0.0
VELOCITY (fps)	3700	3194	2743	2334	1962	1629	1349
ENERGY (ft.-lbs.)	1520	1133	835	605	427	295	202
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.5"	-21.5"	-43.7"	-79.1"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.6"	-17.7"	-38.9"	-73.3"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.7"	0.0	-10.2"	-29.5"	-62.1"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.8"	7.6"	0.0	-16.8"	-46.8"
TRAJ: 500 yds. zero	-1.5"	8.7"	15.5"	17.7"	13.4"	0.0	-26.7"
TRAJ: 600 yds. zero	-1.5"	13.2"	24.4"	31.1"	31.2"	22.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3600	3106	2663	2261	1896	1572	1304
ENERGY (ft.-lbs.)	1439	1071	787	568	399	274	189
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-9.2"	-23.1"	-46.8"	-84.9"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-6.0"	-18.9"	-41.5"	-78.5"
TRAJ: 300 yds. zero	-1.5"	3.1"	4.0"	0.0	-10.9"	-31.5"	-66.5"
TRAJ: 400 yds. zero	-1.5"	5.8"	9.4"	8.1"	0.0	-17.9"	-50.2"
TRAJ: 500 yds. zero	-1.5"	9.4"	16.6"	18.9"	14.4"	0.0	-28.7"
TRAJ: 600 yds. zero	-1.5"	14.1"	26.2"	33.2"	33.5"	23.9"	0.0
VELOCITY (fps)	3500	3017	2583	2188	1830	1515	1260
ENERGY (ft.-lbs.)	1360	1010	741	531	372	255	176
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-10.0"	-24.9"	-50.3"	-91.2"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.4"	-20.2"	-44.3"	-84.2"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.3"	0.0	-11.6"	-33.8"	-71.3"
TRAJ: 400 yds. zero	-1.5"	6.2"	10.1"	8.7"	0.0	-19.2"	-53.9"
TRAJ: 500 yds. zero	-1.5"	10.1"	17.8"	20.3"	15.4"	0.0	-30.8"
TRAJ: 600 yds. zero	-1.5"	15.2"	28.1"	35.7"	35.9"	25.7"	0.0
VELOCITY (fps)	3400	2928	2502	2114	1764	1460	1218
ENERGY (ft.-lbs.)	1283	951	695	496	345	237	165
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.8"	-26.8"	-54.2"	-98.2"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.9"	-21.7"	-47.7"	-90.4"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.6"	0.0	-12.5"	-36.3"	-76.7"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.8"	9.3"	0.0	-20.7"	-58.0"
TRAJ: 500 yds. zero	-1.5"	10.8"	19.1"	21.8"	16.5"	0.0	-33.2"
TRAJ: 600 yds. zero	-1.5"	16.4"	30.1"	38.3"	38.6"	27.6"	0.0
VELOCITY (fps)	3300	2838	2421	2040	1698	1405	1179
ENERGY (ft.-lbs.)	1209	894	650	462	320	219	154
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.7"	-29.0"	-58.5"	-106.0"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.4"	-23.3"	-51.4"	-97.4"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.9"	0.0	-13.4"	-39.0"	-82.6"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.6"	10.0"	0.0	-22.3"	-62.5"
TRAJ: 500 yds. zero	-1.5"	11.7"	20.6"	23.4"	17.8"	0.0	-35.7"
TRAJ: 600 yds. zero	-1.5"	17.7"	32.5"	41.3"	41.7"	29.8"	0.0
VELOCITY (fps)	3200	2748	2339	1966	1633	1352	1143
ENERGY (ft.-lbs.)	1137	838	607	429	296	203	145
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-12.7"	-31.4"	-63.3"	-114.6"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-8.0"	-25.1"	-55.4"	-105.1"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.3"	0.0	-14.4"	-42.1"	-89.1"
TRAJ: 400 yds. zero	-1.5"	7.8"	12.5"	10.8"	0.0	-24.1"	-67.5"
TRAJ: 500 yds. zero	-1.5"	12.7"	22.2"	25.3"	19.3"	0.0	-38.6"
TRAJ: 600 yds. zero	-1.5"	19.1"	35.0"	44.6"	45.0"	32.2"	0.0
VELOCITY (fps)	3100	2658	2257	1892	1568	1301	1109
ENERGY (ft.-lbs.)	1067	784	565	397	273	188	137
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.8"	-34.0"	-68.6"	-124.0"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.6"	-27.1"	-60.0"	-113.7"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.8"	0.0	-15.6"	-45.6"	-96.4"
TRAJ: 400 yds. zero	-1.5"	8.5"	13.6"	11.7"	0.0	-26.1"	-73.0"
TRAJ: 500 yds. zero	-1.5"	13.7"	24.0"	27.3"	20.9"	0.0	-41.7"
TRAJ: 600 yds. zero	-1.5"	20.7"	37.9"	48.2"	48.7"	34.8"	0.0
VELOCITY (fps)	3000	2568	2174	1817	1505	1252	1079
ENERGY (ft.-lbs.)	999	732	525	367	251	174	129
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-15.1"	-37.0"	-74.6"	-134.5"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-9.3"	-29.4"	-65.0"	-123.1"
TRAJ: 300 yds. zero	-1.5"	5.0"	6.2"	0.0	-16.9"	-49.4"	-104.4"
TRAJ: 400 yds. zero	-1.5"	9.3"	14.7"	12.7"	0.0	-28.3"	-79.0"
TRAJ: 500 yds. zero	-1.5"	14.9"	26.0"	29.7"	22.6"	0.0	-45.1"
TRAJ: 600 yds. zero	-1.5"	22.4"	41.0"	52.2"	52.7"	37.5"	0.0
VELOCITY (fps)	2900	2477	2091	1744	1443	1206	1051
ENERGY (ft.-lbs.)	934	681	486	337	231	161	123
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-16.5"	-40.4"	-81.2"	-146.1"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-10.2"	-31.9"	-70.7"	-133.4"
TRAJ: 300 yds. zero	-1.5"	5.5"	6.8"	0.0	-18.4"	-53.7"	-113.1"
TRAJ: 400 yds. zero	-1.5"	10.1"	16.0"	13.8"	0.0	-30.8"	-85.5"
TRAJ: 500 yds. zero	-1.5"	16.2"	28.3"	32.2"	24.6"	0.0	-48.6"
TRAJ: 600 yds. zero	-1.5"	24.3"	44.5"	56.5"	57.0"	40.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2800	2386	2009	1670	1382	1163	1025
ENERGY (ft.-lbs.)	870	632	448	310	212	150	117
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-18.1"	-44.1"	-88.6"	-158.7"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-11.1"	-34.8"	-77.0"	-144.7"
TRAJ: 300 yds. zero	-1.5"	6.0"	7.4"	0.0	-20.0"	-58.5"	-122.6"
TRAJ: 400 yds. zero	-1.5"	11.0"	17.4"	15.0"	0.0	-33.5"	-92.5"
TRAJ: 500 yds. zero	-1.5"	17.7"	30.8"	35.1"	26.8"	0.0	-52.4"
TRAJ: 600 yds. zero	-1.5"	26.5"	48.2"	61.3"	61.7"	43.6"	0.0
VELOCITY (fps)	2700	2295	1926	1598	1324	1124	1002
ENERGY (ft.-lbs.)	809	585	412	284	195	140	111
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-19.8"	-48.3"	-96.9"	-172.5"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-12.1"	-38.0"	-84.0"	-157.0"
TRAJ: 300 yds. zero	-1.5"	6.6"	8.1"	0.0	-21.9"	-63.8"	-132.8"
TRAJ: 400 yds. zero	-1.5"	12.1"	19.0"	16.4"	0.0	-36.5"	-100.0"
TRAJ: 500 yds. zero	-1.5"	19.4"	33.6"	38.3"	29.2"	0.0	-56.2"
TRAJ: 600 yds. zero	-1.5"	28.8"	52.3"	66.4"	66.7"	46.8"	0.0
VELOCITY (fps)	2600	2204	1844	1527	1269	1089	980
ENERGY (ft.-lbs.)	750	539	377	259	179	132	107
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-21.8"	-53.1"	-106.1"	-187.5"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-13.2"	-41.6"	-91.8"	-170.3"
TRAJ: 300 yds. zero	-1.5"	7.3"	8.8"	0.0	-23.9"	-69.7"	-143.8"
TRAJ: 400 yds. zero	-1.5"	13.3"	20.8"	18.0"	0.0	-39.8"	-107.9"
TRAJ: 500 yds. zero	-1.5"	21.2"	36.7"	41.8"	31.8"	0.0	-60.2"
TRAJ: 600 yds. zero	-1.5"	31.3"	56.8"	71.9"	72.0"	50.2"	0.0
VELOCITY (fps)	2500	2112	1762	1458	1217	1058	959
ENERGY (ft.-lbs.)	694	495	345	236	164	124	102
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-24.1"	-58.4"	-116.3"	-203.8"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-14.5"	-45.7"	-100.3"	-184.7"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.7"	0.0	-26.3"	-76.1"	-155.6"
TRAJ: 400 yds. zero	-1.5"	14.6"	22.8"	19.7"	0.0	-43.3"	-116.2"
TRAJ: 500 yds. zero	-1.5"	23.3"	40.1"	45.7"	34.6"	0.0	-64.3"
TRAJ: 600 yds. zero	-1.5"	34.0"	61.6"	77.8"	77.5"	53.6"	0.0
VELOCITY (fps)	2400	2021	1682	1392	1170	1029	940
ENERGY (ft.-lbs.)	639	454	314	215	152	118	98
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-26.7"	-64.4"	-127.5"	-221.5"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-16.0"	-50.2"	-109.7"	-200.2"
TRAJ: 300 yds. zero	-1.5"	8.9"	10.7"	0.0	-28.9"	-83.1"	-168.1"
TRAJ: 400 yds. zero	-1.5"	16.1"	25.1"	21.6"	0.0	-47.0"	-124.8"
TRAJ: 500 yds. zero	-1.5"	25.5"	43.9"	49.8"	37.6"	0.0	-68.5"
TRAJ: 600 yds. zero	-1.5"	36.9"	66.7"	84.1"	83.2"	57.1"	0.0
VELOCITY (fps)	2300	1931	1602	1327	1127	1003	921
ENERGY (ft.-lbs.)	587	414	285	196	141	112	94
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-29.6"	-71.2"	-139.8"	-240.6"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-17.7"	-55.3"	-120.0"	-216.8"
TRAJ: 300 yds. zero	-1.5"	9.9"	11.8"	0.0	-31.7"	-90.5"	-181.4"
TRAJ: 400 yds. zero	-1.5"	17.8"	27.7"	23.8"	0.0	-50.8"	-133.7"
TRAJ: 500 yds. zero	-1.5"	28.0"	48.0"	54.3"	40.6"	0.0	-72.8"
TRAJ: 600 yds. zero	-1.5"	40.1"	72.3"	90.7"	89.2"	60.7"	0.0
VELOCITY (fps)	2200	1841	1525	1267	1088	979	903
ENERGY (ft.-lbs.)	537	376	258	178	131	106	91
TRAJ: 100 yds. zero	-1.5"	0.0	-8.9"	-32.9"	-78.8"	-153.2"	-261.2"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-19.6"	-61.0"	-131.0"	-234.5"
TRAJ: 300 yds. zero	-1.5"	11.0"	13.1"	0.0	-34.9"	-98.4"	-195.3"
TRAJ: 400 yds. zero	-1.5"	19.7"	30.5"	26.2"	0.0	-54.8"	-143.0"
TRAJ: 500 yds. zero	-1.5"	30.6"	52.4"	59.0"	43.8"	0.0	-77.3"
TRAJ: 600 yds. zero	-1.5"	43.5"	78.2"	97.7"	95.3"	64.4"	0.0
VELOCITY (fps)	2100	1751	1449	1211	1054	957	886
ENERGY (ft.-lbs.)	490	340	233	163	123	102	87
TRAJ: 100 yds. zero	-1.5"	0.0	-10.0"	-36.7"	-87.2"	-167.8"	-283.3"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-21.7"	-67.3"	-142.9"	-253.4"
TRAJ: 300 yds. zero	-1.5"	12.2"	14.5"	0.0	-38.3"	-106.7"	-209.9"
TRAJ: 400 yds. zero	-1.5"	21.8"	33.6"	28.7"	0.0	-58.8"	-152.5"
TRAJ: 500 yds. zero	-1.5"	33.6"	57.2"	64.0"	47.1"	0.0	-81.9"
TRAJ: 600 yds. zero	-1.5"	47.2"	84.5"	105.0"	101.7"	68.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2000	1663	1376	1159	1023	935	868
ENERGY (ft.-lbs.)	444	307	210	149	116	97	84
TRAJ: 100 yds. zero	-1.5"	0.0	-11.2"	-41.0"	-96.5"	-183.6"	-307.1"
TRAJ: 200 yds. zero	-1.5"	5.6"	0.0	-24.2"	-74.0"	-155.6"	-273.4"
TRAJ: 300 yds. zero	-1.5"	13.7"	16.1"	0.0	-41.8"	-115.3"	-225.1"
TRAJ: 400 yds. zero	-1.5"	24.1"	37.0"	31.4"	0.0	-63.0"	-162.4"
TRAJ: 500 yds. zero	-1.5"	36.7"	62.2"	69.2"	50.4"	0.0	-86.8"
TRAJ: 600 yds. zero	-1.5"	51.2"	91.1"	112.6"	108.2"	72.3"	0.0

22 CALIBER (.224" Dia.) 52 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .148 BALLISTIC COEFFICIENT: .229

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3800	3314	2880	2485	2123	1794	1503
ENERGY (ft.-lbs.)	1667	1268	958	713	520	371	261
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.6"	-19.1"	-38.5"	-68.7"
TRAJ: 200 yds. zero	-1.5"	0.8"	0.0	-5.1"	-15.8"	-34.3"	-63.7"
TRAJ: 300 yds. zero	-1.5"	2.5"	3.4"	0.0	-9.0"	-25.8"	-53.6"
TRAJ: 400 yds. zero	-1.5"	4.8"	7.9"	6.8"	0.0	-14.5"	-40.0"
TRAJ: 500 yds. zero	-1.5"	7.7"	13.7"	15.5"	11.6"	0.0	-22.6"
TRAJ: 600 yds. zero	-1.5"	11.5"	21.2"	26.8"	26.7"	18.8"	0.0
VELOCITY (fps)	3700	3226	2800	2412	2056	1733	1452
ENERGY (ft.-lbs.)	1580	1201	905	671	488	347	243
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.2"	-20.5"	-41.2"	-73.5"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.4"	-16.8"	-36.5"	-67.9"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.6"	0.0	-9.6"	-27.5"	-57.1"
TRAJ: 400 yds. zero	-1.5"	5.1"	8.4"	7.2"	0.0	-15.5"	-42.7"
TRAJ: 500 yds. zero	-1.5"	8.2"	14.6"	16.5"	12.4"	0.0	-24.1"
TRAJ: 600 yds. zero	-1.5"	12.3"	22.6"	28.6"	28.5"	20.1"	0.0
VELOCITY (fps)	3600	3136	2719	2337	1988	1673	1401
ENERGY (ft.-lbs.)	1496	1136	853	631	456	323	227
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.8"	-22.0"	-44.1"	-78.8"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.8"	-17.9"	-39.0"	-72.6"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.8"	0.0	-10.2"	-29.4"	-61.1"
TRAJ: 400 yds. zero	-1.5"	5.5"	9.0"	7.7"	0.0	-16.6"	-45.7"
TRAJ: 500 yds. zero	-1.5"	8.8"	15.6"	17.6"	13.3"	0.0	-25.9"
TRAJ: 600 yds. zero	-1.5"	13.1"	24.2"	30.6"	30.5"	21.5"	0.0
VELOCITY (fps)	3500	3047	2637	2263	1920	1613	1352
ENERGY (ft.-lbs.)	1414	1072	803	591	426	300	211
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.6"	-23.7"	-47.4"	-84.6"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-6.2"	-19.2"	-41.7"	-77.8"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.1"	0.0	-11.0"	-31.4"	-65.5"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.6"	8.2"	0.0	-17.7"	-49.1"
TRAJ: 500 yds. zero	-1.5"	9.5"	16.7"	18.9"	14.2"	0.0	-27.8"
TRAJ: 600 yds. zero	-1.5"	14.1"	25.9"	32.7"	32.7"	23.1"	0.0
VELOCITY (fps)	3400	2957	2556	2188	1852	1553	1304
ENERGY (ft.-lbs.)	1335	1009	754	552	396	279	196
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-10.4"	-25.6"	-51.0"	-91.1"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.6"	-20.6"	-44.7"	-83.6"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.4"	0.0	-11.7"	-33.7"	-70.4"
TRAJ: 400 yds. zero	-1.5"	6.4"	10.3"	8.8"	0.0	-19.1"	-52.8"
TRAJ: 500 yds. zero	-1.5"	10.2"	17.9"	20.2"	15.2"	0.0	-29.9"
TRAJ: 600 yds. zero	-1.5"	15.2"	27.9"	35.2"	35.2"	24.9"	0.0
VELOCITY (fps)	3300	2867	2473	2112	1784	1495	1258
ENERGY (ft.-lbs.)	1257	949	706	515	367	258	183
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-11.2"	-27.6"	-55.0"	-98.2"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.1"	-22.1"	-48.1"	-90.0"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.7"	0.0	-12.6"	-36.3"	-75.8"
TRAJ: 400 yds. zero	-1.5"	6.9"	11.0"	9.5"	0.0	-20.5"	-56.9"
TRAJ: 500 yds. zero	-1.5"	11.0"	19.2"	21.8"	16.4"	0.0	-32.2"
TRAJ: 600 yds. zero	-1.5"	16.4"	30.0"	37.9"	37.9"	26.9"	0.0
VELOCITY (fps)	3200	2776	2390	2036	1716	1437	1215
ENERGY (ft.-lbs.)	1182	890	660	479	340	238	170
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-12.2"	-29.9"	-59.5"	-106.2"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.7"	-23.8"	-51.9"	-97.1"
TRAJ: 300 yds. zero	-1.5"	4.1"	5.1"	0.0	-13.6"	-39.1"	-81.8"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.9"	10.2"	0.0	-22.2"	-61.4"
TRAJ: 500 yds. zero	-1.5"	11.9"	20.8"	23.5"	17.7"	0.0	-34.8"
TRAJ: 600 yds. zero	-1.5"	17.7"	32.4"	40.9"	40.9"	29.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2686	2307	1960	1648	1381	1174
ENERGY (ft.-lbs.)	1109	833	614	444	314	220	159
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-13.3"	-32.4"	-64.5"	-115.0"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.3"	-25.7"	-56.1"	-105.0"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.5"	0.0	-14.7"	-42.3"	-88.4"
TRAJ: 400 yds. zero	-1.5"	8.1"	12.8"	11.0"	0.0	-24.0"	-66.5"
TRAJ: 500 yds. zero	-1.5"	12.9"	22.4"	25.4"	19.2"	0.0	-37.7"
TRAJ: 600 yds. zero	-1.5"	19.2"	35.0"	44.2"	44.3"	31.4"	0.0
VELOCITY (fps)	3000	2595	2224	1884	1582	1327	1137
ENERGY (ft.-lbs.)	1039	777	571	410	289	203	149
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-14.5"	-35.2"	-70.0"	-124.9"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.9"	-27.8"	-60.8"	-113.8"
TRAJ: 300 yds. zero	-1.5"	4.8"	6.0"	0.0	-15.9"	-45.8"	-95.9"
TRAJ: 400 yds. zero	-1.5"	8.8"	13.9"	11.9"	0.0	-26.0"	-72.1"
TRAJ: 500 yds. zero	-1.5"	14.0"	24.3"	27.5"	20.8"	0.0	-40.9"
TRAJ: 600 yds. zero	-1.5"	20.8"	37.9"	47.9"	48.0"	34.0"	0.0
VELOCITY (fps)	2900	2503	2140	1809	1516	1275	1102
ENERGY (ft.-lbs.)	971	723	529	378	265	188	140
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-15.9"	-38.4"	-76.2"	-135.8"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.7"	-30.2"	-66.0"	-123.5"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.5"	0.0	-17.2"	-49.8"	-104.1"
TRAJ: 400 yds. zero	-1.5"	9.6"	15.1"	12.9"	0.0	-28.3"	-78.2"
TRAJ: 500 yds. zero	-1.5"	15.2"	26.4"	29.9"	22.6"	0.0	-44.3"
TRAJ: 600 yds. zero	-1.5"	22.6"	41.2"	52.0"	52.1"	36.9"	0.0
VELOCITY (fps)	2800	2412	2056	1733	1452	1226	1071
ENERGY (ft.-lbs.)	905	672	488	347	243	174	132
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-17.4"	-41.9"	-83.2"	-147.8"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.6"	-32.9"	-71.9"	-134.2"
TRAJ: 300 yds. zero	-1.5"	5.8"	7.0"	0.0	-18.8"	-54.3"	-113.1"
TRAJ: 400 yds. zero	-1.5"	10.5"	16.4"	14.1"	0.0	-30.8"	-84.9"
TRAJ: 500 yds. zero	-1.5"	16.6"	28.8"	32.6"	24.7"	0.0	-47.9"
TRAJ: 600 yds. zero	-1.5"	24.6"	44.7"	56.5"	56.6"	40.0"	0.0
VELOCITY (fps)	2700	2320	1972	1659	1390	1180	1043
ENERGY (ft.-lbs.)	842	621	449	318	223	161	126
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-19.1"	-45.9"	-91.0"	-161.1"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-11.5"	-35.9"	-78.5"	-146.0"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.7"	0.0	-20.5"	-59.2"	-122.9"
TRAJ: 400 yds. zero	-1.5"	11.5"	17.9"	15.4"	0.0	-33.6"	-92.2"
TRAJ: 500 yds. zero	-1.5"	18.2"	31.4"	35.5"	26.9"	0.0	-51.9"
TRAJ: 600 yds. zero	-1.5"	26.8"	48.7"	61.5"	61.5"	43.2"	0.0
VELOCITY (fps)	2600	2228	1889	1586	1330	1139	1017
ENERGY (ft.-lbs.)	780	573	412	290	204	150	119
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-21.0"	-50.4"	-99.8"	-175.6"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-12.6"	-39.3"	-85.8"	-158.9"
TRAJ: 300 yds. zero	-1.5"	7.0"	8.4"	0.0	-22.4"	-64.8"	-133.6"
TRAJ: 400 yds. zero	-1.5"	12.6"	19.6"	16.8"	0.0	-36.7"	-100.0"
TRAJ: 500 yds. zero	-1.5"	20.0"	34.3"	38.9"	29.4"	0.0	-55.9"
TRAJ: 600 yds. zero	-1.5"	29.3"	53.0"	66.8"	66.7"	46.6"	0.0
VELOCITY (fps)	2500	2137	1806	1514	1273	1101	993
ENERGY (ft.-lbs.)	722	527	376	265	187	140	114
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-23.2"	-55.5"	-109.5"	-191.5"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-13.9"	-43.1"	-94.0"	-173.0"
TRAJ: 300 yds. zero	-1.5"	7.7"	9.3"	0.0	-24.6"	-70.9"	-145.2"
TRAJ: 400 yds. zero	-1.5"	13.9"	21.6"	18.5"	0.0	-40.1"	-108.3"
TRAJ: 500 yds. zero	-1.5"	21.9"	37.6"	42.5"	32.1"	0.0	-60.1"
TRAJ: 600 yds. zero	-1.5"	31.9"	57.7"	72.6"	72.2"	50.1"	0.0
VELOCITY (fps)	2400	2045	1724	1444	1220	1068	971
ENERGY (ft.-lbs.)	665	483	343	241	172	132	109
TRAJ: 100 yds. zero	-1.5"	0.0	-6.9"	-25.6"	-61.3"	-120.4"	-208.8"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-15.3"	-47.5"	-103.1"	-188.1"
TRAJ: 300 yds. zero	-1.5"	8.5"	10.2"	0.0	-27.1"	-77.6"	-157.5"
TRAJ: 400 yds. zero	-1.5"	15.3"	23.7"	20.3"	0.0	-43.8"	-116.9"
TRAJ: 500 yds. zero	-1.5"	24.1"	41.2"	46.6"	35.0"	0.0	-64.4"
TRAJ: 600 yds. zero	-1.5"	34.8"	62.7"	78.8"	78.0"	53.7"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2300	1954	1643	1376	1171	1037	950
ENERGY (ft.-lbs.)	611	441	312	219	158	124	104
TRAJ: 100 yds. zero	-1.5"	0.0	-7.7"	-28.4"	-67.7"	-132.3"	-227.6"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-16.9"	-52.3"	-113.1"	-204.5"
TRAJ: 300 yds. zero	-1.5"	9.5"	11.3"	0.0	-29.8"	-84.9"	-170.7"
TRAJ: 400 yds. zero	-1.5"	16.9"	26.2"	22.4"	0.0	-47.7"	-126.0"
TRAJ: 500 yds. zero	-1.5"	26.5"	45.2"	51.0"	38.1"	0.0	-68.8"
TRAJ: 600 yds. zero	-1.5"	37.9"	68.2"	85.3"	84.0"	57.3"	0.0
VELOCITY (fps)	2200	1863	1563	1312	1127	1010	930
ENERGY (ft.-lbs.)	559	401	282	199	147	118	100
TRAJ: 100 yds. zero	-1.5"	0.0	-8.6"	-31.6"	-75.0"	-145.5"	-247.9"
TRAJ: 200 yds. zero	-1.5"	4.3"	0.0	-18.7"	-57.8"	-123.9"	-222.0"
TRAJ: 300 yds. zero	-1.5"	10.5"	12.5"	0.0	-32.9"	-92.7"	-184.6"
TRAJ: 400 yds. zero	-1.5"	18.8"	28.9"	24.6"	0.0	-51.7"	-135.3"
TRAJ: 500 yds. zero	-1.5"	29.1"	49.6"	55.6"	41.3"	0.0	-73.3"
TRAJ: 600 yds. zero	-1.5"	41.3"	74.0"	92.3"	90.2"	61.1"	0.0
VELOCITY (fps)	2100	1773	1485	1251	1087	984	911
ENERGY (ft.-lbs.)	509	363	255	181	136	112	96
TRAJ: 100 yds. zero	-1.5"	0.0	-9.7"	-35.3"	-83.2"	-159.9"	-269.9"
TRAJ: 200 yds. zero	-1.5"	4.8"	0.0	-20.8"	-63.9"	-135.7"	-240.8"
TRAJ: 300 yds. zero	-1.5"	11.8"	13.8"	0.0	-36.2"	-101.1"	-199.3"
TRAJ: 400 yds. zero	-1.5"	20.8"	31.9"	27.1"	0.0	-55.8"	-145.0"
TRAJ: 500 yds. zero	-1.5"	32.0"	54.3"	60.6"	44.7"	0.0	-78.0"
TRAJ: 600 yds. zero	-1.5"	45.0"	80.3"	99.6"	96.7"	65.0"	0.0
VELOCITY (fps)	2000	1684	1410	1195	1052	961	893
ENERGY (ft.-lbs.)	462	327	230	165	128	107	92
TRAJ: 100 yds. zero	-1.5"	0.0	-10.9"	-39.4"	-92.3"	-175.5"	-293.5"
TRAJ: 200 yds. zero	-1.5"	5.4"	0.0	-23.1"	-70.5"	-148.3"	-260.9"
TRAJ: 300 yds. zero	-1.5"	13.1"	15.4"	0.0	-39.7"	-109.8"	-214.7"
TRAJ: 400 yds. zero	-1.5"	23.1"	35.3"	29.8"	0.0	-60.1"	-155.1"
TRAJ: 500 yds. zero	-1.5"	35.1"	59.3"	65.9"	48.1"	0.0	-82.9"
TRAJ: 600 yds. zero	-1.5"	48.9"	87.0"	107.3"	103.4"	69.1"	0.0

22 CALIBER (.224" Dia.) 53 GRAIN HOLLOW POINT MATCH
SECTIONAL DENSITY: .151 BALLISTIC COEFFICIENT: .218

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3800	3291	2838	2428	2054	1716	1425
ENERGY (ft.-lbs.)	1699	1275	948	694	496	347	239
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.8"	-19.8"	-40.1"	-72.4"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.2"	-16.4"	-35.8"	-67.2"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.5"	0.0	-9.4"	-27.1"	-56.8"
TRAJ: 400 yds. zero	-1.5"	5.0"	8.2"	7.1"	0.0	-15.4"	-42.7"
TRAJ: 500 yds. zero	-1.5"	8.0"	14.3"	16.3"	12.3"	0.0	-24.3"
TRAJ: 600 yds. zero	-1.5"	12.1"	22.4"	28.4"	28.5"	20.2"	0.0
VELOCITY (fps)	3700	3203	2759	2356	1988	1658	1377
ENERGY (ft.-lbs.)	1611	1207	896	653	465	323	223
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.4"	-21.2"	-43.0"	-77.5"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.6"	-17.4"	-38.2"	-71.8"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.7"	0.0	-10.0"	-28.9"	-60.7"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.7"	7.5"	0.0	-16.4"	-45.6"
TRAJ: 500 yds. zero	-1.5"	8.6"	15.3"	17.4"	13.1"	0.0	-26.0"
TRAJ: 600 yds. zero	-1.5"	12.9"	23.9"	30.3"	30.4"	21.6"	0.0
VELOCITY (fps)	3600	3114	2679	2282	1921	1600	1330
ENERGY (ft.-lbs.)	1525	1141	844	613	434	301	208
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-9.1"	-22.8"	-46.1"	-83.1"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.9"	-18.6"	-40.8"	-76.8"
TRAJ: 300 yds. zero	-1.5"	3.0"	4.0"	0.0	-10.7"	-30.9"	-64.9"
TRAJ: 400 yds. zero	-1.5"	5.7"	9.3"	8.0"	0.0	-17.5"	-48.9"
TRAJ: 500 yds. zero	-1.5"	9.2"	16.3"	18.5"	14.0"	0.0	-27.8"
TRAJ: 600 yds. zero	-1.5"	13.9"	25.6"	32.5"	32.6"	23.2"	0.0
VELOCITY (fps)	3500	3025	2598	2209	1855	1542	1285
ENERGY (ft.-lbs.)	1441	1077	794	574	405	280	194
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.8"	-24.5"	-49.5"	-89.3"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.4"	-19.9"	-43.7"	-82.3"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.2"	0.0	-11.4"	-33.1"	-69.6"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.9"	8.6"	0.0	-18.8"	-52.5"
TRAJ: 500 yds. zero	-1.5"	9.9"	17.5"	19.9"	15.0"	0.0	-29.9"
TRAJ: 600 yds. zero	-1.5"	14.9"	27.4"	34.8"	35.0"	24.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	2936	2517	2135	1788	1485	1241
ENERGY (ft.-lbs.)	1360	1014	745	536	376	260	181
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.7"	-26.5"	-53.3"	-96.1"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.8"	-21.3"	-46.9"	-88.5"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.5"	0.0	-12.2"	-35.5"	-74.8"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.7"	9.2"	0.0	-20.2"	-56.5"
TRAJ: 500 yds. zero	-1.5"	10.7"	18.8"	21.3"	16.2"	0.0	-32.2"
TRAJ: 600 yds. zero	-1.5"	16.0"	29.5"	37.4"	37.6"	26.8"	0.0
VELOCITY (fps)	3300	2846	2435	2060	1722	1430	1200
ENERGY (ft.-lbs.)	1281	953	698	499	349	240	169
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-11.6"	-28.6"	-57.5"	-103.7"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.3"	-22.9"	-50.4"	-95.3"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.9"	0.0	-13.2"	-38.2"	-80.6"
TRAJ: 400 yds. zero	-1.5"	7.1"	11.5"	9.9"	0.0	-21.8"	-60.9"
TRAJ: 500 yds. zero	-1.5"	11.5"	20.2"	22.9"	17.4"	0.0	-34.7"
TRAJ: 600 yds. zero	-1.5"	17.3"	31.8"	40.3"	40.6"	28.9"	0.0
VELOCITY (fps)	3200	2756	2353	1986	1656	1375	1162
ENERGY (ft.-lbs.)	1205	894	652	464	323	222	159
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-12.6"	-30.9"	-62.2"	-112.1"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.9"	-24.7"	-54.4"	-102.8"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.3"	0.0	-14.2"	-41.2"	-87.0"
TRAJ: 400 yds. zero	-1.5"	7.7"	12.4"	10.6"	0.0	-23.5"	-65.7"
TRAJ: 500 yds. zero	-1.5"	12.4"	21.8"	24.7"	18.8"	0.0	-37.5"
TRAJ: 600 yds. zero	-1.5"	18.7"	34.3"	43.5"	43.8"	31.3"	0.0
VELOCITY (fps)	3100	2666	2271	1911	1590	1322	1126
ENERGY (ft.-lbs.)	1131	836	607	430	298	206	149
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-13.7"	-33.6"	-67.4"	-121.5"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.5"	-26.7"	-58.8"	-111.2"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.7"	0.0	-15.3"	-44.6"	-94.1"
TRAJ: 400 yds. zero	-1.5"	8.4"	13.3"	11.5"	0.0	-25.5"	-71.1"
TRAJ: 500 yds. zero	-1.5"	13.5"	23.5"	26.8"	20.4"	0.0	-40.6"
TRAJ: 600 yds. zero	-1.5"	20.2"	37.1"	47.1"	47.4"	33.8"	0.0
VELOCITY (fps)	3000	2575	2188	1836	1526	1272	1094
ENERGY (ft.-lbs.)	1059	780	563	397	274	190	141
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.9"	-36.5"	-73.3"	-131.8"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-9.2"	-28.9"	-63.8"	-120.4"
TRAJ: 300 yds. zero	-1.5"	5.0"	6.2"	0.0	-16.6"	-48.4"	-101.9"
TRAJ: 400 yds. zero	-1.5"	9.1"	14.5"	12.5"	0.0	-27.6"	-77.0"
TRAJ: 500 yds. zero	-1.5"	14.7"	25.5"	29.0"	22.1"	0.0	-43.9"
TRAJ: 600 yds. zero	-1.5"	22.0"	40.1"	51.0"	51.3"	36.6"	0.0
VELOCITY (fps)	2900	2484	2105	1762	1463	1224	1064
ENERGY (ft.-lbs.)	990	726	521	365	252	176	133
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-16.3"	-39.8"	-79.8"	-143.1"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-10.0"	-31.4"	-69.3"	-130.6"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.7"	0.0	-18.0"	-52.6"	-110.5"
TRAJ: 400 yds. zero	-1.5"	9.9"	15.7"	13.5"	0.0	-30.0"	-83.5"
TRAJ: 500 yds. zero	-1.5"	16.0"	27.7"	31.6"	24.0"	0.0	-47.4"
TRAJ: 600 yds. zero	-1.5"	23.9"	43.5"	55.3"	55.6"	39.5"	0.0
VELOCITY (fps)	2800	2393	2022	1688	1401	1180	1037
ENERGY (ft.-lbs.)	922	674	481	335	231	164	127
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-17.9"	-43.5"	-87.1"	-155.6"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.9"	-34.2"	-75.5"	-141.7"
TRAJ: 300 yds. zero	-1.5"	6.0"	7.3"	0.0	-19.7"	-57.3"	-119.9"
TRAJ: 400 yds. zero	-1.5"	10.9"	17.1"	14.7"	0.0	-32.7"	-90.4"
TRAJ: 500 yds. zero	-1.5"	17.4"	30.2"	34.4"	26.2"	0.0	-51.1"
TRAJ: 600 yds. zero	-1.5"	25.9"	47.2"	59.9"	60.3"	42.6"	0.0
VELOCITY (fps)	2700	2302	1939	1615	1342	1139	1013
ENERGY (ft.-lbs.)	858	623	442	307	212	153	121
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-19.6"	-47.6"	-95.2"	-169.3"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.9"	-37.4"	-82.4"	-153.9"
TRAJ: 300 yds. zero	-1.5"	6.5"	8.0"	0.0	-21.5"	-62.5"	-130.0"
TRAJ: 400 yds. zero	-1.5"	11.9"	18.7"	16.1"	0.0	-35.7"	-97.8"
TRAJ: 500 yds. zero	-1.5"	19.0"	33.0"	37.5"	28.5"	0.0	-55.0"
TRAJ: 600 yds. zero	-1.5"	28.2"	51.3"	65.0"	65.2"	45.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2600	2211	1856	1544	1286	1102	990
ENERGY (ft.-lbs.)	795	575	406	280	194	143	115
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-21.6"	-52.3"	-104.3"	-184.2"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-13.1"	-40.9"	-90.1"	-167.1"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.7"	0.0	-23.5"	-68.3"	-141.0"
TRAJ: 400 yds. zero	-1.5"	13.1"	20.5"	17.6"	0.0	-38.9"	-105.7"
TRAJ: 500 yds. zero	-1.5"	20.9"	36.0"	41.0"	31.1"	0.0	-59.0"
TRAJ: 600 yds. zero	-1.5"	30.7"	55.7"	70.5"	70.5"	49.2"	0.0
VELOCITY (fps)	2500	2119	1774	1474	1232	1069	968
ENERGY (ft.-lbs.)	735	528	370	256	179	135	110
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-23.8"	-57.6"	-114.4"	-200.4"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-14.3"	-44.9"	-98.6"	-181.4"
TRAJ: 300 yds. zero	-1.5"	7.9"	9.6"	0.0	-25.8"	-74.6"	-152.7"
TRAJ: 400 yds. zero	-1.5"	14.4"	22.5"	19.4"	0.0	-42.4"	-114.0"
TRAJ: 500 yds. zero	-1.5"	22.9"	39.4"	44.8"	33.9"	0.0	-63.1"
TRAJ: 600 yds. zero	-1.5"	33.4"	60.5"	76.4"	76.0"	52.6"	0.0
VELOCITY (fps)	2400	2028	1693	1406	1183	1039	948
ENERGY (ft.-lbs.)	678	484	337	233	165	127	106
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-26.4"	-63.5"	-125.5"	-218.0"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-15.8"	-49.4"	-107.9"	-196.8"
TRAJ: 300 yds. zero	-1.5"	8.8"	10.5"	0.0	-28.4"	-81.5"	-165.2"
TRAJ: 400 yds. zero	-1.5"	15.9"	24.7"	21.3"	0.0	-46.1"	-122.7"
TRAJ: 500 yds. zero	-1.5"	25.1"	43.1"	48.9"	36.9"	0.0	-67.4"
TRAJ: 600 yds. zero	-1.5"	36.3"	65.6"	82.6"	81.8"	56.1"	0.0
VELOCITY (fps)	2300	1937	1614	1341	1138	1012	929
ENERGY (ft.-lbs.)	622	442	306	212	152	121	102
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-29.3"	-70.2"	-137.7"	-236.9"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-17.5"	-54.5"	-118.0"	-213.3"
TRAJ: 300 yds. zero	-1.5"	9.8"	11.6"	0.0	-31.2"	-88.9"	-178.4"
TRAJ: 400 yds. zero	-1.5"	17.6"	27.2"	23.4"	0.0	-49.9"	-131.6"
TRAJ: 500 yds. zero	-1.5"	27.5"	47.2"	53.4"	39.9"	0.0	-71.7"
TRAJ: 600 yds. zero	-1.5"	39.5"	71.1"	89.2"	87.7"	59.7"	0.0
VELOCITY (fps)	2200	1847	1535	1279	1098	987	910
ENERGY (ft.-lbs.)	569	401	277	193	142	115	98
TRAJ: 100 yds. zero	-1.5"	0.0	-8.8"	-32.6"	-77.7"	-151.1"	-257.4"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-19.3"	-60.1"	-129.0"	-231.0"
TRAJ: 300 yds. zero	-1.5"	10.9"	12.9"	0.0	-34.3"	-96.8"	-192.3"
TRAJ: 400 yds. zero	-1.5"	19.4"	30.0"	25.7"	0.0	-53.9"	-140.9"
TRAJ: 500 yds. zero	-1.5"	30.2"	51.6"	58.1"	43.1"	0.0	-76.2"
TRAJ: 600 yds. zero	-1.5"	42.9"	77.0"	96.2"	93.9"	63.5"	0.0
VELOCITY (fps)	2100	1757	1459	1222	1063	964	893
ENERGY (ft.-lbs.)	519	363	251	176	133	109	94
TRAJ: 100 yds. zero	-1.5"	0.0	-9.9"	-36.3"	-86.1"	-165.6"	-279.6"
TRAJ: 200 yds. zero	-1.5"	4.9"	0.0	-21.5"	-66.3"	-140.9"	-249.9"
TRAJ: 300 yds. zero	-1.5"	12.1"	14.3"	0.0	-37.7"	-105.1"	-207.0"
TRAJ: 400 yds. zero	-1.5"	21.5"	33.1"	28.3"	0.0	-58.0"	-150.4"
TRAJ: 500 yds. zero	-1.5"	33.1"	56.4"	63.1"	46.4"	0.0	-80.8"
TRAJ: 600 yds. zero	-1.5"	46.6"	83.3"	103.5"	100.3"	67.4"	0.0
VELOCITY (fps)	2000	1669	1386	1169	1031	942	875
ENERGY (ft.-lbs.)	471	328	226	161	125	104	90
TRAJ: 100 yds. zero	-1.5"	0.0	-11.1"	-40.6"	-95.3"	-181.4"	-303.4"
TRAJ: 200 yds. zero	-1.5"	5.6"	0.0	-23.9"	-73.1"	-153.5"	-270.0"
TRAJ: 300 yds. zero	-1.5"	13.5"	15.9"	0.0	-41.3"	-113.8"	-222.2"
TRAJ: 400 yds. zero	-1.5"	23.8"	36.5"	30.9"	0.0	-62.2"	-160.4"
TRAJ: 500 yds. zero	-1.5"	36.3"	61.4"	68.3"	49.8"	0.0	-85.7"
TRAJ: 600 yds. zero	-1.5"	50.6"	90.0"	111.1"	106.9"	71.4"	0.0

**22 CALIBER (.224" Dia.) 55 GRAIN SX OR SPIRE POINT OR SPIRE POINT
W/CANNELURE**
SECTIONAL DENSITY: .157 BALLISTIC COEFFICIENT: .235

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3800	3326	2901	2514	2159	1834	1545
ENERGY (ft.-lbs.)	1763	1351	1028	772	569	411	291
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.5"	-18.8"	-37.7"	-67.0"
TRAJ: 200 yds. zero	-1.5"	0.8"	0.0	-5.0"	-15.5"	-33.5"	-62.0"
TRAJ: 300 yds. zero	-1.5"	2.5"	3.3"	0.0	-8.8"	-25.2"	-52.0"
TRAJ: 400 yds. zero	-1.5"	4.7"	7.7"	6.6"	0.0	-14.1"	-38.7"
TRAJ: 500 yds. zero	-1.5"	7.5"	13.4"	15.1"	11.3"	0.0	-21.8"
TRAJ: 600 yds. zero	-1.5"	11.2"	20.7"	26.0"	25.8"	18.1"	0.0
VELOCITY (fps)	3700	3237	2820	2440	2091	1772	1492
ENERGY (ft.-lbs.)	1672	1279	971	727	534	384	272
TRAJ: 100 yds. zero	-1.5"	0.0	-1.8"	-8.1"	-20.2"	-40.3"	-71.6"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.3"	-16.5"	-35.7"	-66.1"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.5"	0.0	-9.4"	-26.8"	-55.5"
TRAJ: 400 yds. zero	-1.5"	5.0"	8.2"	7.1"	0.0	-15.1"	-41.3"
TRAJ: 500 yds. zero	-1.5"	8.1"	14.3"	16.1"	12.1"	0.0	-23.3"
TRAJ: 600 yds. zero	-1.5"	11.9"	22.0"	27.7"	27.6"	19.4"	0.0
VELOCITY (fps)	3600	3148	2739	2365	2022	1711	1440
ENERGY (ft.-lbs.)	1582	1210	916	683	499	357	253
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.7"	-21.7"	-43.2"	-76.7"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.7"	-17.6"	-38.1"	-70.6"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.8"	0.0	-10.0"	-28.6"	-59.3"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.8"	7.5"	0.0	-16.1"	-44.2"
TRAJ: 500 yds. zero	-1.5"	8.6"	15.2"	17.2"	12.9"	0.0	-24.9"
TRAJ: 600 yds. zero	-1.5"	12.8"	23.5"	29.6"	29.5"	20.8"	0.0
VELOCITY (fps)	3500	3058	2657	2290	1953	1650	1388
ENERGY (ft.-lbs.)	1496	1142	862	641	466	332	235
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-9.4"	-23.3"	-46.4"	-82.4"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-6.1"	-18.8"	-40.8"	-75.7"
TRAJ: 300 yds. zero	-1.5"	3.1"	4.0"	0.0	-10.7"	-30.6"	-63.5"
TRAJ: 400 yds. zero	-1.5"	5.8"	9.4"	8.0"	0.0	-17.2"	-47.4"
TRAJ: 500 yds. zero	-1.5"	9.3"	16.3"	18.4"	13.8"	0.0	-26.7"
TRAJ: 600 yds. zero	-1.5"	13.7"	25.2"	31.8"	31.6"	22.3"	0.0
VELOCITY (fps)	3400	2968	2575	2215	1885	1589	1339
ENERGY (ft.-lbs.)	1412	1075	810	599	434	308	219
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-10.2"	-25.1"	-49.9"	-88.7"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.5"	-20.2"	-43.7"	-81.2"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.3"	0.0	-11.5"	-32.9"	-68.2"
TRAJ: 400 yds. zero	-1.5"	6.3"	10.1"	8.6"	0.0	-18.5"	-51.0"
TRAJ: 500 yds. zero	-1.5"	10.0"	17.5"	19.7"	14.8"	0.0	-28.8"
TRAJ: 600 yds. zero	-1.5"	14.8"	27.1"	34.1"	34.0"	24.0"	0.0
VELOCITY (fps)	3300	2877	2492	2139	1816	1529	1291
ENERGY (ft.-lbs.)	1330	1011	759	558	403	285	203
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-11.1"	-27.1"	-53.8"	-95.6"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.0"	-21.7"	-47.0"	-87.4"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.7"	0.0	-12.3"	-35.3"	-73.4"
TRAJ: 400 yds. zero	-1.5"	6.8"	10.8"	9.2"	0.0	-19.9"	-54.9"
TRAJ: 500 yds. zero	-1.5"	10.8"	18.8"	21.2"	15.9"	0.0	-31.0"
TRAJ: 600 yds. zero	-1.5"	15.9"	29.1"	36.7"	36.6"	25.9"	0.0
VELOCITY (fps)	3200	2787	2409	2062	1747	1470	1245
ENERGY (ft.-lbs.)	1250	948	709	519	373	264	189
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-12.0"	-29.3"	-58.2"	-103.3"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.5"	-23.3"	-50.7"	-94.3"
TRAJ: 300 yds. zero	-1.5"	4.0"	5.0"	0.0	-13.3"	-38.1"	-79.3"
TRAJ: 400 yds. zero	-1.5"	7.3"	11.7"	10.0"	0.0	-21.5"	-59.3"
TRAJ: 500 yds. zero	-1.5"	11.6"	20.3"	22.9"	17.2"	0.0	-33.5"
TRAJ: 600 yds. zero	-1.5"	17.2"	31.4"	39.6"	39.6"	28.0"	0.0
VELOCITY (fps)	3100	2696	2326	1986	1678	1412	1201
ENERGY (ft.-lbs.)	1173	887	660	481	344	244	176
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-13.1"	-31.8"	-63.0"	-111.9"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.1"	-25.2"	-54.7"	-102.0"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.4"	0.0	-14.3"	-41.2"	-85.7"
TRAJ: 400 yds. zero	-1.5"	8.0"	12.6"	10.7"	0.0	-23.3"	-64.2"
TRAJ: 500 yds. zero	-1.5"	12.6"	21.9"	24.7"	18.6"	0.0	-36.3"
TRAJ: 600 yds. zero	-1.5"	18.7"	34.0"	42.9"	42.8"	30.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2605	2242	1909	1611	1356	1161
ENERGY (ft.-lbs.)	1099	828	614	445	317	225	165
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-14.3"	-34.6"	-68.5"	-121.5"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.8"	-27.3"	-59.3"	-110.5"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.9"	0.0	-15.5"	-44.6"	-92.9"
TRAJ: 400 yds. zero	-1.5"	8.6"	13.6"	11.6"	0.0	-25.2"	-69.6"
TRAJ: 500 yds. zero	-1.5"	13.7"	23.7"	26.8"	20.2"	0.0	-39.4"
TRAJ: 600 yds. zero	-1.5"	20.3"	36.8"	46.5"	46.4"	32.8"	0.0
VELOCITY (fps)	2900	2513	2158	1833	1544	1302	1124
ENERGY (ft.-lbs.)	1027	771	568	410	291	207	154
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-15.6"	-37.7"	-74.5"	-132.2"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.6"	-29.6"	-64.4"	-120.0"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.4"	0.0	-16.8"	-48.5"	-100.9"
TRAJ: 400 yds. zero	-1.5"	9.4"	14.8"	12.6"	0.0	-27.4"	-75.6"
TRAJ: 500 yds. zero	-1.5"	14.9"	25.8"	29.1"	21.9"	0.0	-42.7"
TRAJ: 600 yds. zero	-1.5"	22.0"	40.0"	50.4"	50.4"	35.6"	0.0
VELOCITY (fps)	2800	2421	2073	1757	1479	1251	1090
ENERGY (ft.-lbs.)	957	716	525	377	267	191	145
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-17.1"	-41.2"	-81.3"	-143.9"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-10.4"	-32.2"	-70.1"	-130.5"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.9"	0.0	-18.3"	-52.8"	-109.7"
TRAJ: 400 yds. zero	-1.5"	10.3"	16.1"	13.8"	0.0	-29.9"	-82.2"
TRAJ: 500 yds. zero	-1.5"	16.3"	28.1"	31.7"	23.9"	0.0	-46.3"
TRAJ: 600 yds. zero	-1.5"	24.0"	43.5"	54.9"	54.8"	38.6"	0.0
VELOCITY (fps)	2700	2330	1989	1682	1415	1203	1060
ENERGY (ft.-lbs.)	890	663	483	345	244	177	137
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-18.8"	-45.1"	-89.0"	-157.0"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-11.4"	-35.2"	-76.6"	-142.1"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.6"	0.0	-20.0"	-57.7"	-119.4"
TRAJ: 400 yds. zero	-1.5"	11.3"	17.6"	15.0"	0.0	-32.6"	-89.4"
TRAJ: 500 yds. zero	-1.5"	17.8"	30.6"	34.6"	26.1"	0.0	-50.2"
TRAJ: 600 yds. zero	-1.5"	26.2"	47.4"	59.7"	59.6"	41.8"	0.0
VELOCITY (fps)	2600	2238	1905	1607	1353	1159	1032
ENERGY (ft.-lbs.)	825	611	443	315	224	164	130
TRAJ: 100 yds. zero	-1.5"	0.0	-5.5"	-20.7"	-49.5"	-97.5"	-171.3"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-12.4"	-38.5"	-83.8"	-154.8"
TRAJ: 300 yds. zero	-1.5"	6.9"	8.3"	0.0	-21.9"	-63.0"	-130.0"
TRAJ: 400 yds. zero	-1.5"	12.4"	19.2"	16.4"	0.0	-35.7"	-97.1"
TRAJ: 500 yds. zero	-1.5"	19.5"	33.5"	37.8"	28.5"	0.0	-54.3"
TRAJ: 600 yds. zero	-1.5"	28.6"	51.6"	65.0"	64.7"	45.2"	0.0
VELOCITY (fps)	2500	2146	1822	1535	1295	1119	1007
ENERGY (ft.-lbs.)	763	562	405	288	205	153	124
TRAJ: 100 yds. zero	-1.5"	0.0	-6.1"	-22.8"	-54.5"	-107.1"	-187.0"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-13.6"	-42.2"	-91.8"	-168.7"
TRAJ: 300 yds. zero	-1.5"	7.6"	9.1"	0.0	-24.0"	-69.1"	-141.4"
TRAJ: 400 yds. zero	-1.5"	13.6"	21.1"	18.0"	0.0	-39.0"	-105.3"
TRAJ: 500 yds. zero	-1.5"	21.4"	36.7"	41.4"	31.2"	0.0	-58.5"
TRAJ: 600 yds. zero	-1.5"	31.2"	56.2"	70.7"	70.2"	48.8"	0.0
VELOCITY (fps)	2400	2054	1739	1464	1240	1083	984
ENERGY (ft.-lbs.)	703	515	369	262	188	143	118
TRAJ: 100 yds. zero	-1.5"	0.0	-6.8"	-25.3"	-60.1"	-117.8"	-204.2"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-15.0"	-46.5"	-100.7"	-183.7"
TRAJ: 300 yds. zero	-1.5"	8.4"	10.0"	0.0	-26.4"	-75.7"	-153.7"
TRAJ: 400 yds. zero	-1.5"	15.0"	23.2"	19.8"	0.0	-42.6"	-114.0"
TRAJ: 500 yds. zero	-1.5"	23.6"	40.3"	45.4"	34.1"	0.0	-62.9"
TRAJ: 600 yds. zero	-1.5"	34.0"	61.2"	76.8"	76.0"	52.4"	0.0
VELOCITY (fps)	2300	1962	1658	1395	1189	1051	962
ENERGY (ft.-lbs.)	646	470	336	238	172	135	113
TRAJ: 100 yds. zero	-1.5"	0.0	-7.6"	-28.0"	-66.5"	-129.6"	-222.8"
TRAJ: 200 yds. zero	-1.5"	3.8"	0.0	-16.6"	-51.3"	-110.6"	-200.0"
TRAJ: 300 yds. zero	-1.5"	9.3"	11.1"	0.0	-29.1"	-82.9"	-166.8"
TRAJ: 400 yds. zero	-1.5"	16.6"	25.6"	21.8"	0.0	-46.5"	-123.1"
TRAJ: 500 yds. zero	-1.5"	25.9"	44.2"	49.7"	37.2"	0.0	-67.3"
TRAJ: 600 yds. zero	-1.5"	37.1"	66.7"	83.4"	82.0"	56.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2200	1871	1577	1329	1142	1022	941
ENERGY (ft.-lbs.)	591	428	304	216	159	128	108
TRAJ: 100 yds. zero	-1.5"	0.0	-8.5"	-31.2"	-73.7"	-142.6"	-243.0"
TRAJ: 200 yds. zero	-1.5"	4.3"	0.0	-18.4"	-56.6"	-121.3"	-217.4"
TRAJ: 300 yds. zero	-1.5"	10.4"	12.3"	0.0	-32.1"	-90.7"	-180.7"
TRAJ: 400 yds. zero	-1.5"	18.4"	28.3"	24.1"	0.0	-50.5"	-132.5"
TRAJ: 500 yds. zero	-1.5"	28.5"	48.5"	54.4"	40.4"	0.0	-71.9"
TRAJ: 600 yds. zero	-1.5"	40.5"	72.5"	90.3"	88.3"	59.9"	0.0
VELOCITY (fps)	2100	1781	1499	1267	1101	995	921
ENERGY (ft.-lbs.)	538	387	274	196	148	121	104
TRAJ: 100 yds. zero	-1.5"	0.0	-9.6"	-34.8"	-81.8"	-156.9"	-264.9"
TRAJ: 200 yds. zero	-1.5"	4.8"	0.0	-20.4"	-62.6"	-133.0"	-236.2"
TRAJ: 300 yds. zero	-1.5"	11.6"	13.6"	0.0	-35.4"	-99.0"	-195.3"
TRAJ: 400 yds. zero	-1.5"	20.4"	31.3"	26.6"	0.0	-54.7"	-142.2"
TRAJ: 500 yds. zero	-1.5"	31.4"	53.2"	59.4"	43.8"	0.0	-76.6"
TRAJ: 600 yds. zero	-1.5"	44.2"	78.7"	97.7"	94.8"	63.8"	0.0
VELOCITY (fps)	2000	1691	1423	1209	1064	971	902
ENERGY (ft.-lbs.)	488	349	247	179	138	115	99
TRAJ: 100 yds. zero	-1.5"	0.0	-10.8"	-38.9"	-90.8"	-172.5"	-288.5"
TRAJ: 200 yds. zero	-1.5"	5.4"	0.0	-22.7"	-69.3"	-145.6"	-256.2"
TRAJ: 300 yds. zero	-1.5"	13.0"	15.1"	0.0	-39.0"	-107.7"	-210.8"
TRAJ: 400 yds. zero	-1.5"	22.7"	34.6"	29.2"	0.0	-59.0"	-152.3"
TRAJ: 500 yds. zero	-1.5"	34.5"	58.2"	64.6"	47.2"	0.0	-81.5"
TRAJ: 600 yds. zero	-1.5"	48.1"	85.4"	105.4"	101.5"	67.9"	0.0
VELOCITY (fps)	1900	1603	1350	1156	1031	948	884
ENERGY (ft.-lbs.)	441	314	222	163	130	110	95
TRAJ: 100 yds. zero	-1.5"	0.0	-12.2"	-43.6"	-100.8"	-189.5"	-314.0"
TRAJ: 200 yds. zero	-1.5"	6.1"	0.0	-25.3"	-76.5"	-159.1"	-277.5"
TRAJ: 300 yds. zero	-1.5"	14.5"	16.9"	0.0	-42.7"	-116.9"	-226.9"
TRAJ: 400 yds. zero	-1.5"	25.2"	38.2"	32.1"	0.0	-63.5"	-162.8"
TRAJ: 500 yds. zero	-1.5"	37.9"	63.6"	70.1"	50.8"	0.0	-86.6"
TRAJ: 600 yds. zero	-1.5"	52.3"	92.5"	113.5"	108.5"	72.2"	0.0
VELOCITY (fps)	1800	1516	1280	1109	1001	926	866
ENERGY (ft.-lbs.)	396	280	200	150	122	105	92
TRAJ: 100 yds. zero	-1.5"	0.0	-13.8"	-48.9"	-111.9"	-207.9"	-341.5"
TRAJ: 200 yds. zero	-1.5"	6.9"	0.0	-28.2"	-84.3"	-173.5"	-300.2"
TRAJ: 300 yds. zero	-1.5"	16.3"	18.8"	0.0	-46.7"	-126.5"	-243.8"
TRAJ: 400 yds. zero	-1.5"	28.0"	42.2"	35.0"	0.0	-68.1"	-173.8"
TRAJ: 500 yds. zero	-1.5"	41.6"	69.4"	75.9"	54.5"	0.0	-92.0"
TRAJ: 600 yds. zero	-1.5"	56.9"	100.1"	121.9"	115.8"	76.7"	0.0

22 CALIBER (.224" Dia.) 55 GRAIN FULL METAL JACKET BOAT TAIL
SECTIONAL DENSITY: .157 BALLISTIC COEFFICIENT: .243

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3800	3341	2928	2551	2204	1885	1598
ENERGY (ft.-lbs.)	1763	1363	1047	795	593	434	312
TRAJ: 100 yds. zero	-1.5"	0.0	-1.6"	-7.3"	-18.4"	-36.7"	-64.8"
TRAJ: 200 yds. zero	-1.5"	0.8"	0.0	-4.9"	-15.1"	-32.6"	-59.9"
TRAJ: 300 yds. zero	-1.5"	2.4"	3.3"	0.0	-8.6"	-24.5"	-50.1"
TRAJ: 400 yds. zero	-1.5"	4.6"	7.6"	6.5"	0.0	-13.7"	-37.2"
TRAJ: 500 yds. zero	-1.5"	7.3"	13.0"	14.7"	10.9"	0.0	-20.8"
TRAJ: 600 yds. zero	-1.5"	10.8"	20.0"	25.1"	24.8"	17.3"	0.0
VELOCITY (fps)	3700	3251	2847	2476	2135	1822	1544
ENERGY (ft.-lbs.)	1672	1291	989	749	557	405	291
TRAJ: 100 yds. zero	-1.5"	0.0	-1.8"	-7.9"	-19.7"	-39.2"	-69.3"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.2"	-16.1"	-34.7"	-63.9"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.5"	0.0	-9.2"	-26.0"	-53.5"
TRAJ: 400 yds. zero	-1.5"	4.9"	8.1"	6.9"	0.0	-14.6"	-39.7"
TRAJ: 500 yds. zero	-1.5"	7.8"	13.9"	15.6"	11.6"	0.0	-22.2"
TRAJ: 600 yds. zero	-1.5"	11.5"	21.3"	26.7"	26.5"	18.5"	0.0
VELOCITY (fps)	3600	3162	2765	2401	2066	1760	1489
ENERGY (ft.-lbs.)	1582	1221	933	704	521	378	271
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.6"	-21.2"	-42.0"	-74.2"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.6"	-17.2"	-37.0"	-68.2"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.7"	0.0	-9.8"	-27.8"	-57.1"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.6"	7.3"	0.0	-15.5"	-42.4"
TRAJ: 500 yds. zero	-1.5"	8.4"	14.8"	16.7"	12.4"	0.0	-23.8"
TRAJ: 600 yds. zero	-1.5"	12.4"	22.7"	28.6"	28.3"	19.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3072	2683	2325	1996	1697	1436
ENERGY (ft.-lbs.)	1496	1152	879	660	486	352	252
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-9.3"	-22.8"	-45.1"	-79.7"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-6.0"	-18.4"	-39.6"	-73.1"
TRAJ: 300 yds. zero	-1.5"	3.1"	4.0"	0.0	-10.4"	-29.7"	-61.2"
TRAJ: 400 yds. zero	-1.5"	5.7"	9.2"	7.8"	0.0	-16.6"	-45.5"
TRAJ: 500 yds. zero	-1.5"	9.0"	15.8"	17.8"	13.3"	0.0	-25.5"
TRAJ: 600 yds. zero	-1.5"	13.3"	24.4"	30.6"	30.3"	21.3"	0.0
VELOCITY (fps)	3400	2981	2600	2249	1926	1635	1384
ENERGY (ft.-lbs.)	1412	1085	825	618	453	326	234
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-10.0"	-24.6"	-48.6"	-85.7"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.4"	-19.7"	-42.5"	-78.4"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.3"	0.0	-11.2"	-31.8"	-65.6"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.9"	8.4"	0.0	-17.8"	-48.9"
TRAJ: 500 yds. zero	-1.5"	9.7"	17.0"	19.1"	14.3"	0.0	-27.5"
TRAJ: 600 yds. zero	-1.5"	14.3"	26.1"	32.8"	32.6"	22.9"	0.0
VELOCITY (fps)	3300	2891	2517	2172	1856	1573	1333
ENERGY (ft.-lbs.)	1330	1020	773	576	421	302	217
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.9"	-26.5"	-52.4"	-92.4"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.9"	-21.2"	-45.6"	-84.4"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.6"	0.0	-12.0"	-34.2"	-70.6"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.6"	9.0"	0.0	-19.2"	-52.6"
TRAJ: 500 yds. zero	-1.5"	10.5"	18.3"	20.5"	15.4"	0.0	-29.6"
TRAJ: 600 yds. zero	-1.5"	15.4"	28.1"	35.3"	35.1"	24.7"	0.0
VELOCITY (fps)	3200	2800	2433	2095	1786	1512	1284
ENERGY (ft.-lbs.)	1250	957	723	536	390	279	201
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.8"	-28.7"	-56.6"	-99.9"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.4"	-22.8"	-49.2"	-91.0"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.9"	0.0	-12.9"	-36.9"	-76.2"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.4"	9.7"	0.0	-20.7"	-56.8"
TRAJ: 500 yds. zero	-1.5"	11.3"	19.7"	22.1"	16.6"	0.0	-32.0"
TRAJ: 600 yds. zero	-1.5"	16.6"	30.3"	38.1"	37.9"	26.7"	0.0
VELOCITY (fps)	3100	2709	2349	2018	1717	1453	1238
ENERGY (ft.-lbs.)	1173	896	674	497	360	258	187
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.9"	-31.1"	-61.3"	-108.2"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-8.0"	-24.6"	-53.1"	-98.4"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.3"	0.0	-13.9"	-39.8"	-82.4"
TRAJ: 400 yds. zero	-1.5"	7.8"	12.3"	10.5"	0.0	-22.4"	-61.5"
TRAJ: 500 yds. zero	-1.5"	12.3"	21.2"	23.9"	17.9"	0.0	-34.6"
TRAJ: 600 yds. zero	-1.5"	18.0"	32.8"	41.2"	41.0"	28.9"	0.0
VELOCITY (fps)	3000	2617	2265	1941	1648	1394	1194
ENERGY (ft.-lbs.)	1099	836	626	460	332	237	174
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-14.1"	-33.8"	-66.6"	-117.4"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.6"	-26.6"	-57.5"	-106.6"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.8"	0.0	-15.1"	-43.1"	-89.3"
TRAJ: 400 yds. zero	-1.5"	8.5"	13.3"	11.3"	0.0	-24.3"	-66.7"
TRAJ: 500 yds. zero	-1.5"	13.3"	23.0"	25.9"	19.4"	0.0	-37.6"
TRAJ: 600 yds. zero	-1.5"	19.6"	35.5"	44.7"	44.5"	31.3"	0.0
VELOCITY (fps)	2900	2525	2180	1863	1580	1338	1154
ENERGY (ft.-lbs.)	1027	779	580	424	305	219	162
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-15.4"	-36.8"	-72.4"	-127.7"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.4"	-28.9"	-62.5"	-115.8"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.2"	0.0	-16.4"	-46.8"	-97.0"
TRAJ: 400 yds. zero	-1.5"	9.2"	14.4"	12.3"	0.0	-26.4"	-72.5"
TRAJ: 500 yds. zero	-1.5"	14.5"	25.0"	28.1"	21.1"	0.0	-40.8"
TRAJ: 600 yds. zero	-1.5"	21.3"	38.6"	48.5"	48.3"	34.0"	0.0
VELOCITY (fps)	2800	2433	2095	1787	1513	1284	1117
ENERGY (ft.-lbs.)	957	723	536	390	279	201	152
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-16.8"	-40.2"	-79.1"	-139.2"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-10.2"	-31.4"	-68.0"	-126.0"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.8"	0.0	-17.8"	-51.0"	-105.6"
TRAJ: 400 yds. zero	-1.5"	10.1"	15.7"	13.4"	0.0	-28.8"	-78.9"
TRAJ: 500 yds. zero	-1.5"	15.8"	27.2"	30.6"	23.0"	0.0	-44.3"
TRAJ: 600 yds. zero	-1.5"	23.2"	42.0"	52.8"	52.6"	37.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2341	2011	1710	1447	1233	1083
ENERGY (ft.-lbs.)	890	669	494	357	256	186	143
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-18.5"	-44.1"	-86.5"	-151.9"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-11.1"	-34.3"	-74.2"	-137.3"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.4"	0.0	-19.4"	-55.7"	-115.0"
TRAJ: 400 yds. zero	-1.5"	11.0"	17.1"	14.6"	0.0	-31.4"	-85.8"
TRAJ: 500 yds. zero	-1.5"	17.3"	29.7"	33.4"	25.1"	0.0	-48.2"
TRAJ: 600 yds. zero	-1.5"	25.3"	45.8"	57.5"	57.2"	40.1"	0.0
VELOCITY (fps)	2600	2249	1926	1635	1384	1186	1053
ENERGY (ft.-lbs.)	825	618	453	326	234	172	135
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-20.3"	-48.4"	-94.8"	-166.0"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-12.2"	-37.5"	-81.2"	-149.7"
TRAJ: 300 yds. zero	-1.5"	6.8"	8.1"	0.0	-21.3"	-60.9"	-125.3"
TRAJ: 400 yds. zero	-1.5"	12.1"	18.8"	16.0"	0.0	-34.3"	-93.4"
TRAJ: 500 yds. zero	-1.5"	19.0"	32.5"	36.6"	27.5"	0.0	-52.2"
TRAJ: 600 yds. zero	-1.5"	27.7"	49.9"	62.7"	62.3"	43.5"	0.0
VELOCITY (fps)	2500	2157	1842	1561	1323	1143	1026
ENERGY (ft.-lbs.)	763	568	414	298	214	160	128
TRAJ: 100 yds. zero	-1.5"	0.0	-6.0"	-22.4"	-53.2"	-104.2"	-181.5"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-13.4"	-41.2"	-89.1"	-163.3"
TRAJ: 300 yds. zero	-1.5"	7.5"	8.9"	0.0	-23.3"	-66.8"	-136.6"
TRAJ: 400 yds. zero	-1.5"	13.3"	20.6"	17.5"	0.0	-37.6"	-101.6"
TRAJ: 500 yds. zero	-1.5"	20.8"	35.6"	40.1"	30.1"	0.0	-56.5"
TRAJ: 600 yds. zero	-1.5"	30.2"	54.4"	68.3"	67.7"	47.1"	0.0
VELOCITY (fps)	2400	2065	1759	1489	1266	1104	1000
ENERGY (ft.-lbs.)	703	521	378	271	196	149	122
TRAJ: 100 yds. zero	-1.5"	0.0	-6.7"	-24.8"	-58.8"	-114.6"	-198.4"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-14.7"	-45.3"	-97.8"	-178.2"
TRAJ: 300 yds. zero	-1.5"	8.3"	9.8"	0.0	-25.7"	-73.3"	-148.7"
TRAJ: 400 yds. zero	-1.5"	14.7"	22.7"	19.3"	0.0	-41.2"	-110.2"
TRAJ: 500 yds. zero	-1.5"	22.9"	39.1"	44.0"	32.9"	0.0	-60.8"
TRAJ: 600 yds. zero	-1.5"	33.1"	59.4"	74.4"	73.5"	50.7"	0.0
VELOCITY (fps)	2300	1973	1677	1419	1212	1069	977
ENERGY (ft.-lbs.)	646	475	343	246	179	140	117
TRAJ: 100 yds. zero	-1.5"	0.0	-7.5"	-27.5"	-65.0"	-126.2"	-216.8"
TRAJ: 200 yds. zero	-1.5"	3.8"	0.0	-16.3"	-50.0"	-107.4"	-194.3"
TRAJ: 300 yds. zero	-1.5"	9.2"	10.8"	0.0	-28.3"	-80.4"	-161.8"
TRAJ: 400 yds. zero	-1.5"	16.2"	25.0"	21.2"	0.0	-45.0"	-119.3"
TRAJ: 500 yds. zero	-1.5"	25.2"	43.0"	48.2"	36.0"	0.0	-65.4"
TRAJ: 600 yds. zero	-1.5"	36.1"	64.8"	80.9"	79.6"	54.5"	0.0
VELOCITY (fps)	2200	1881	1595	1351	1163	1038	955
ENERGY (ft.-lbs.)	591	432	311	223	165	132	111
TRAJ: 100 yds. zero	-1.5"	0.0	-8.4"	-30.6"	-72.1"	-139.1"	-236.9"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-18.0"	-55.2"	-118.1"	-211.7"
TRAJ: 300 yds. zero	-1.5"	10.2"	12.0"	0.0	-31.2"	-88.1"	-175.7"
TRAJ: 400 yds. zero	-1.5"	18.0"	27.6"	23.4"	0.0	-49.0"	-128.8"
TRAJ: 500 yds. zero	-1.5"	27.8"	47.2"	52.8"	39.2"	0.0	-70.0"
TRAJ: 600 yds. zero	-1.5"	39.5"	70.6"	87.8"	85.9"	58.3"	0.0
VELOCITY (fps)	2100	1791	1516	1287	1118	1010	935
ENERGY (ft.-lbs.)	538	392	281	202	153	125	107
TRAJ: 100 yds. zero	-1.5"	0.0	-9.4"	-34.2"	-80.0"	-153.3"	-258.7"
TRAJ: 200 yds. zero	-1.5"	4.7"	0.0	-20.0"	-61.1"	-129.6"	-230.3"
TRAJ: 300 yds. zero	-1.5"	11.4"	13.3"	0.0	-34.5"	-96.3"	-190.4"
TRAJ: 400 yds. zero	-1.5"	20.0"	30.6"	25.8"	0.0	-53.3"	-138.7"
TRAJ: 500 yds. zero	-1.5"	30.7"	51.9"	57.8"	42.6"	0.0	-74.8"
TRAJ: 600 yds. zero	-1.5"	43.1"	76.8"	95.2"	92.4"	62.3"	0.0
VELOCITY (fps)	2000	1701	1439	1227	1079	984	915
ENERGY (ft.-lbs.)	488	353	253	184	142	118	102
TRAJ: 100 yds. zero	-1.5"	0.0	-10.6"	-38.2"	-88.9"	-168.8"	-282.2"
TRAJ: 200 yds. zero	-1.5"	5.3"	0.0	-22.3"	-67.7"	-142.2"	-250.3"
TRAJ: 300 yds. zero	-1.5"	12.7"	14.8"	0.0	-38.0"	-105.1"	-205.8"
TRAJ: 400 yds. zero	-1.5"	22.2"	33.8"	28.5"	0.0	-57.6"	-148.8"
TRAJ: 500 yds. zero	-1.5"	33.8"	56.9"	63.1"	46.1"	0.0	-79.7"
TRAJ: 600 yds. zero	-1.5"	47.0"	83.4"	102.9"	99.2"	66.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1900	1612	1365	1172	1044	960	896
ENERGY (ft.-lbs.)	441	317	227	168	133	112	98
TRAJ: 100 yds. zero	-1.5"	0.0	-12.0"	-42.8"	-98.9"	-185.7"	-307.7"
TRAJ: 200 yds. zero	-1.5"	6.0"	0.0	-24.8"	-74.9"	-155.7"	-271.6"
TRAJ: 300 yds. zero	-1.5"	14.3"	16.5"	0.0	-41.8"	-114.3"	-222.0"
TRAJ: 400 yds. zero	-1.5"	24.7"	37.4"	31.3"	0.0	-62.1"	-159.4"
TRAJ: 500 yds. zero	-1.5"	37.1"	62.3"	68.6"	49.7"	0.0	-84.8"
TRAJ: 600 yds. zero	-1.5"	51.3"	90.5"	111.0"	106.2"	70.7"	0.0
VELOCITY (fps)	1800	1524	1294	1123	1013	937	877
ENERGY (ft.-lbs.)	396	284	204	154	125	107	94
TRAJ: 100 yds. zero	-1.5"	0.0	-13.6"	-48.1"	-109.8"	-204.1"	-335.1"
TRAJ: 200 yds. zero	-1.5"	6.8"	0.0	-27.7"	-82.7"	-170.1"	-294.3"
TRAJ: 300 yds. zero	-1.5"	16.0"	18.5"	0.0	-45.7"	-124.0"	-239.0"
TRAJ: 400 yds. zero	-1.5"	27.5"	41.3"	34.3"	0.0	-66.8"	-170.4"
TRAJ: 500 yds. zero	-1.5"	40.8"	68.0"	74.4"	53.4"	0.0	-90.2"
TRAJ: 600 yds. zero	-1.5"	55.9"	98.1"	119.5"	113.6"	75.2"	0.0

22 CALIBER (.224" Dia.) 60 GRAIN SPIRE POINT
SECTIONAL DENSITY: .171 BALLISTIC COEFFICIENT: .264

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3700	3285	2908	2562	2240	1943	1672
ENERGY (ft.-lbs.)	1824	1438	1127	874	669	503	372
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.6"	-18.8"	-36.9"	-64.3"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.0"	-15.3"	-32.6"	-59.1"
TRAJ: 300 yds. zero	-1.5"	2.5"	3.3"	0.0	-8.6"	-24.2"	-49.1"
TRAJ: 400 yds. zero	-1.5"	4.7"	7.7"	6.5"	0.0	-13.4"	-36.1"
TRAJ: 500 yds. zero	-1.5"	7.4"	13.0"	14.5"	10.8"	0.0	-20.0"
TRAJ: 600 yds. zero	-1.5"	10.7"	19.7"	24.6"	24.1"	16.7"	0.0
VELOCITY (fps)	3600	3195	2826	2485	2169	1878	1613
ENERGY (ft.-lbs.)	1726	1360	1064	823	627	470	347
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.2"	-20.2"	-39.5"	-68.8"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.3"	-16.3"	-34.7"	-63.1"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.6"	0.0	-9.2"	-25.8"	-52.4"
TRAJ: 400 yds. zero	-1.5"	5.0"	8.2"	6.9"	0.0	-14.3"	-38.6"
TRAJ: 500 yds. zero	-1.5"	7.9"	13.9"	15.5"	11.5"	0.0	-21.4"
TRAJ: 600 yds. zero	-1.5"	11.5"	21.0"	26.2"	25.7"	17.8"	0.0
VELOCITY (fps)	3500	3104	2742	2408	2098	1812	1555
ENERGY (ft.-lbs.)	1632	1284	1002	772	586	437	322
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.9"	-21.7"	-42.4"	-73.8"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.7"	-17.4"	-37.1"	-67.5"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.8"	-27.6"	-56.1"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.7"	7.4"	0.0	-15.3"	-41.3"
TRAJ: 500 yds. zero	-1.5"	8.5"	14.8"	16.6"	12.3"	0.0	-22.9"
TRAJ: 600 yds. zero	-1.5"	12.3"	22.5"	28.0"	27.5"	19.1"	0.0
VELOCITY (fps)	3400	3013	2658	2330	2026	1747	1498
ENERGY (ft.-lbs.)	1540	1209	941	723	547	406	299
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.6"	-23.4"	-45.6"	-79.4"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.1"	-18.7"	-39.8"	-72.3"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.1"	0.0	-10.5"	-29.6"	-60.1"
TRAJ: 400 yds. zero	-1.5"	5.8"	9.3"	7.9"	0.0	-16.4"	-44.3"
TRAJ: 500 yds. zero	-1.5"	9.1"	15.9"	17.7"	13.1"	0.0	-24.6"
TRAJ: 600 yds. zero	-1.5"	13.2"	24.1"	30.1"	29.6"	20.5"	0.0
VELOCITY (fps)	3300	2922	2574	2252	1954	1681	1442
ENERGY (ft.-lbs.)	1451	1137	883	676	508	377	277
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.5"	-25.2"	-49.2"	-85.5"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.6"	-20.0"	-42.7"	-77.8"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.4"	0.0	-11.3"	-31.7"	-64.6"
TRAJ: 400 yds. zero	-1.5"	6.3"	10.0"	8.5"	0.0	-17.6"	-47.7"
TRAJ: 500 yds. zero	-1.5"	9.8"	17.1"	19.0"	14.1"	0.0	-26.5"
TRAJ: 600 yds. zero	-1.5"	14.3"	25.9"	32.3"	31.8"	22.1"	0.0
VELOCITY (fps)	3200	2830	2489	2173	1881	1617	1387
ENERGY (ft.-lbs.)	1364	1067	826	629	471	348	256
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.4"	-27.3"	-53.1"	-92.4"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.1"	-21.6"	-45.9"	-83.8"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.7"	0.0	-12.1"	-34.2"	-69.6"
TRAJ: 400 yds. zero	-1.5"	6.8"	10.8"	9.1"	0.0	-19.0"	-51.5"
TRAJ: 500 yds. zero	-1.5"	10.6"	18.4"	20.5"	15.2"	0.0	-28.7"
TRAJ: 600 yds. zero	-1.5"	15.4"	27.9"	34.8"	34.3"	23.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2738	2404	2094	1809	1553	1333
ENERGY (ft.-lbs.)	1280	999	770	584	436	321	237
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.4"	-29.6"	-57.5"	-100.0"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.6"	-23.2"	-49.6"	-90.5"
TRAJ: 300 yds. zero	-1.5"	4.1"	5.1"	0.0	-13.1"	-36.9"	-75.3"
TRAJ: 400 yds. zero	-1.5"	7.4"	11.6"	9.8"	0.0	-20.5"	-55.7"
TRAJ: 500 yds. zero	-1.5"	11.5"	19.8"	22.1"	16.4"	0.0	-31.0"
TRAJ: 600 yds. zero	-1.5"	16.7"	30.2"	37.6"	37.1"	25.9"	0.0
VELOCITY (fps)	3000	2646	2319	2015	1737	1490	1282
ENERGY (ft.-lbs.)	1199	933	716	541	402	296	219
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.5"	-32.1"	-62.4"	-108.5"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.3"	-25.1"	-53.6"	-98.0"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.5"	0.0	-14.1"	-39.9"	-81.5"
TRAJ: 400 yds. zero	-1.5"	8.0"	12.6"	10.6"	0.0	-22.2"	-60.3"
TRAJ: 500 yds. zero	-1.5"	12.5"	21.5"	23.9"	17.8"	0.0	-33.7"
TRAJ: 600 yds. zero	-1.5"	18.1"	32.7"	40.8"	40.2"	28.1"	0.0
VELOCITY (fps)	2900	2554	2233	1936	1666	1428	1234
ENERGY (ft.-lbs.)	1120	869	664	499	370	272	203
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.7"	-35.0"	-67.9"	-118.0"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.9"	-27.2"	-58.2"	-106.4"
TRAJ: 300 yds. zero	-1.5"	4.9"	6.0"	0.0	-15.3"	-43.3"	-88.5"
TRAJ: 400 yds. zero	-1.5"	8.7"	13.6"	11.5"	0.0	-24.2"	-65.6"
TRAJ: 500 yds. zero	-1.5"	13.6"	23.3"	26.0"	19.3"	0.0	-36.6"
TRAJ: 600 yds. zero	-1.5"	19.7"	35.5"	44.3"	43.7"	30.5"	0.0
VELOCITY (fps)	2800	2461	2147	1857	1595	1369	1188
ENERGY (ft.-lbs.)	1044	807	614	460	339	250	188
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-16.1"	-38.2"	-74.0"	-128.7"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.7"	-29.6"	-63.3"	-115.8"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.5"	0.0	-16.7"	-47.1"	-96.4"
TRAJ: 400 yds. zero	-1.5"	9.5"	14.8"	12.5"	0.0	-26.3"	-71.4"
TRAJ: 500 yds. zero	-1.5"	14.8"	25.3"	28.3"	21.0"	0.0	-39.8"
TRAJ: 600 yds. zero	-1.5"	21.4"	38.6"	48.2"	47.6"	33.2"	0.0
VELOCITY (fps)	2700	2369	2061	1779	1526	1312	1147
ENERGY (ft.-lbs.)	971	747	566	422	310	229	175
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-17.7"	-41.8"	-80.9"	-140.6"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.6"	-32.3"	-69.1"	-126.4"
TRAJ: 300 yds. zero	-1.5"	5.9"	7.1"	0.0	-18.2"	-51.4"	-105.1"
TRAJ: 400 yds. zero	-1.5"	10.4"	16.2"	13.6"	0.0	-28.7"	-77.9"
TRAJ: 500 yds. zero	-1.5"	16.2"	27.6"	30.9"	23.0"	0.0	-43.4"
TRAJ: 600 yds. zero	-1.5"	23.4"	42.1"	52.6"	51.9"	36.2"	0.0
VELOCITY (fps)	2600	2276	1976	1701	1459	1257	1109
ENERGY (ft.-lbs.)	900	690	520	386	283	211	164
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.5"	-45.9"	-88.7"	-153.8"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.6"	-35.3"	-75.6"	-138.1"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.7"	0.0	-19.9"	-56.3"	-114.8"
TRAJ: 400 yds. zero	-1.5"	11.5"	17.7"	14.9"	0.0	-31.4"	-85.0"
TRAJ: 500 yds. zero	-1.5"	17.7"	30.2"	33.8"	25.1"	0.0	-47.3"
TRAJ: 600 yds. zero	-1.5"	25.6"	46.0"	57.4"	56.7"	39.4"	0.0
VELOCITY (fps)	2500	2183	1890	1625	1393	1207	1075
ENERGY (ft.-lbs.)	833	635	476	352	259	194	154
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-21.5"	-50.5"	-97.5"	-168.6"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.7"	-38.8"	-82.9"	-151.0"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.5"	0.0	-21.8"	-61.7"	-125.6"
TRAJ: 400 yds. zero	-1.5"	12.6"	19.4"	16.3"	0.0	-34.4"	-92.9"
TRAJ: 500 yds. zero	-1.5"	19.5"	33.2"	37.0"	27.6"	0.0	-51.6"
TRAJ: 600 yds. zero	-1.5"	28.1"	50.3"	62.8"	61.9"	43.0"	0.0
VELOCITY (fps)	2400	2090	1805	1549	1331	1160	1044
ENERGY (ft.-lbs.)	767	582	434	320	236	179	145
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-23.8"	-55.7"	-107.4"	-184.9"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-14.0"	-42.6"	-91.1"	-165.3"
TRAJ: 300 yds. zero	-1.5"	7.9"	9.3"	0.0	-24.0"	-67.8"	-137.3"
TRAJ: 400 yds. zero	-1.5"	13.9"	21.3"	18.0"	0.0	-37.8"	-101.4"
TRAJ: 500 yds. zero	-1.5"	21.5"	36.4"	40.7"	30.2"	0.0	-56.0"
TRAJ: 600 yds. zero	-1.5"	30.8"	55.1"	68.7"	67.6"	46.7"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2300	1998	1721	1476	1271	1118	1017
ENERGY (ft.-lbs.)	705	532	395	290	215	167	138
TRAJ: 100 yds. zero	-1.5"	0.0	-7.3"	-26.4"	-61.6"	-118.5"	-202.8"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-15.5"	-47.1"	-100.3"	-181.0"
TRAJ: 300 yds. zero	-1.5"	8.8"	10.3"	0.0	-26.4"	-74.5"	-150.1"
TRAJ: 400 yds. zero	-1.5"	15.4"	23.5"	19.8"	0.0	-41.5"	-110.4"
TRAJ: 500 yds. zero	-1.5"	23.7"	40.1"	44.7"	33.2"	0.0	-60.6"
TRAJ: 600 yds. zero	-1.5"	33.8"	60.3"	75.0"	73.6"	50.5"	0.0
VELOCITY (fps)	2200	1906	1638	1405	1216	1081	991
ENERGY (ft.-lbs.)	645	484	358	263	197	156	131
TRAJ: 100 yds. zero	-1.5"	0.0	-8.1"	-29.4"	-68.3"	-130.9"	-222.5"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-17.1"	-52.0"	-110.6"	-198.0"
TRAJ: 300 yds. zero	-1.5"	9.8"	11.4"	0.0	-29.2"	-82.0"	-163.8"
TRAJ: 400 yds. zero	-1.5"	17.1"	26.0"	21.9"	0.0	-45.5"	-120.0"
TRAJ: 500 yds. zero	-1.5"	26.2"	44.2"	49.2"	36.4"	0.0	-65.4"
TRAJ: 600 yds. zero	-1.5"	37.1"	66.0"	81.9"	80.0"	54.5"	0.0
VELOCITY (fps)	2100	1814	1557	1337	1165	1047	968
ENERGY (ft.-lbs.)	587	438	323	238	181	146	125
TRAJ: 100 yds. zero	-1.5"	0.0	-9.1"	-32.8"	-76.0"	-144.7"	-243.9"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-19.0"	-57.7"	-121.8"	-216.5"
TRAJ: 300 yds. zero	-1.5"	10.9"	12.7"	0.0	-32.3"	-90.1"	-178.4"
TRAJ: 400 yds. zero	-1.5"	19.0"	28.8"	24.2"	0.0	-49.8"	-130.0"
TRAJ: 500 yds. zero	-1.5"	28.9"	48.7"	54.1"	39.8"	0.0	-70.3"
TRAJ: 600 yds. zero	-1.5"	40.7"	72.2"	89.2"	86.7"	58.6"	0.0
VELOCITY (fps)	2000	1723	1478	1272	1119	1017	946
ENERGY (ft.-lbs.)	533	396	291	216	167	138	119
TRAJ: 100 yds. zero	-1.5"	0.0	-10.3"	-36.6"	-84.6"	-159.9"	-267.2"
TRAJ: 200 yds. zero	-1.5"	5.1"	0.0	-21.2"	-64.0"	-134.2"	-236.3"
TRAJ: 300 yds. zero	-1.5"	12.2"	14.1"	0.0	-35.7"	-98.9"	-194.0"
TRAJ: 400 yds. zero	-1.5"	21.1"	32.0"	26.8"	0.0	-54.2"	-140.4"
TRAJ: 500 yds. zero	-1.5"	32.0"	53.7"	59.3"	43.4"	0.0	-75.3"
TRAJ: 600 yds. zero	-1.5"	44.5"	78.8"	97.0"	93.6"	62.8"	0.0
VELOCITY (fps)	1900	1633	1401	1212	1079	990	924
ENERGY (ft.-lbs.)	481	355	261	196	155	131	114
TRAJ: 100 yds. zero	-1.5"	0.0	-11.6"	-41.1"	-94.3"	-176.7"	-292.5"
TRAJ: 200 yds. zero	-1.5"	5.8"	0.0	-23.6"	-71.0"	-147.6"	-257.6"
TRAJ: 300 yds. zero	-1.5"	13.7"	15.8"	0.0	-39.5"	-108.1"	-210.3"
TRAJ: 400 yds. zero	-1.5"	23.6"	35.5"	29.6"	0.0	-58.8"	-151.1"
TRAJ: 500 yds. zero	-1.5"	35.3"	59.0"	64.9"	47.1"	0.0	-80.5"
TRAJ: 600 yds. zero	-1.5"	48.8"	85.9"	105.2"	100.7"	67.1"	0.0
VELOCITY (fps)	1800	1545	1327	1157	1043	964	904
ENERGY (ft.-lbs.)	432	318	234	178	145	124	109
TRAJ: 100 yds. zero	-1.5"	0.0	-13.2"	-46.2"	-105.1"	-195.0"	-319.9"
TRAJ: 200 yds. zero	-1.5"	6.6"	0.0	-26.4"	-78.7"	-162.0"	-280.4"
TRAJ: 300 yds. zero	-1.5"	15.4"	17.6"	0.0	-43.5"	-118.0"	-227.5"
TRAJ: 400 yds. zero	-1.5"	26.3"	39.4"	32.6"	0.0	-63.6"	-162.3"
TRAJ: 500 yds. zero	-1.5"	39.0"	64.8"	70.8"	50.9"	0.0	-86.0"
TRAJ: 600 yds. zero	-1.5"	53.3"	93.5"	113.8"	108.2"	71.6"	0.0

22 CALIBER (.224" Dia.) 60 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .171 BALLISTIC COEFFICIENT: .271

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3700	3296	2927	2588	2273	1980	1712
ENERGY (ft.-lbs.)	1824	1447	1141	892	688	522	390
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.5"	-18.5"	-36.2"	-62.9"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-4.9"	-15.1"	-32.0"	-57.8"
TRAJ: 300 yds. zero	-1.5"	2.5"	3.3"	0.0	-8.5"	-23.7"	-47.9"
TRAJ: 400 yds. zero	-1.5"	4.6"	7.5"	6.4"	0.0	-13.1"	-35.2"
TRAJ: 500 yds. zero	-1.5"	7.2"	12.8"	14.2"	10.5"	0.0	-19.4"
TRAJ: 600 yds. zero	-1.5"	10.5"	19.3"	24.0"	23.5"	16.2"	0.0
VELOCITY (fps)	3600	3205	2844	2511	2201	1914	1652
ENERGY (ft.-lbs.)	1726	1368	1077	840	645	488	364
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.1"	-19.9"	-38.8"	-67.3"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.3"	-16.1"	-34.1"	-61.6"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.5"	0.0	-9.0"	-25.3"	-51.1"
TRAJ: 400 yds. zero	-1.5"	5.0"	8.0"	6.8"	0.0	-14.0"	-37.5"
TRAJ: 500 yds. zero	-1.5"	7.8"	13.6"	15.2"	11.2"	0.0	-20.8"
TRAJ: 600 yds. zero	-1.5"	11.2"	20.5"	25.6"	25.0"	17.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3114	2760	2433	2129	1847	1593
ENERGY (ft.-lbs.)	1632	1292	1015	788	604	455	338
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.8"	-21.4"	-41.7"	-72.2"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.6"	-17.2"	-36.4"	-65.9"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.8"	0.0	-9.7"	-27.0"	-54.7"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.6"	7.2"	0.0	-15.0"	-40.2"
TRAJ: 500 yds. zero	-1.5"	8.3"	14.6"	16.2"	12.0"	0.0	-22.2"
TRAJ: 600 yds. zero	-1.5"	12.0"	22.0"	27.3"	26.8"	18.5"	0.0
VELOCITY (fps)	3400	3023	2676	2355	2056	1781	1534
ENERGY (ft.-lbs.)	1540	1217	954	739	563	423	314
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.5"	-23.0"	-44.8"	-77.6"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.0"	-18.4"	-39.0"	-70.7"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.0"	0.0	-10.3"	-28.9"	-58.6"
TRAJ: 400 yds. zero	-1.5"	5.8"	9.2"	7.7"	0.0	-16.0"	-43.1"
TRAJ: 500 yds. zero	-1.5"	9.0"	15.6"	17.4"	12.8"	0.0	-23.9"
TRAJ: 600 yds. zero	-1.5"	12.9"	23.6"	29.3"	28.7"	19.9"	0.0
VELOCITY (fps)	3300	2931	2592	2276	1983	1715	1476
ENERGY (ft.-lbs.)	1451	1145	895	690	524	392	290
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.3"	-24.8"	-48.3"	-83.6"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.5"	-19.7"	-41.8"	-75.9"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.3"	0.0	-11.1"	-31.0"	-63.0"
TRAJ: 400 yds. zero	-1.5"	6.2"	9.9"	8.3"	0.0	-17.2"	-46.4"
TRAJ: 500 yds. zero	-1.5"	9.7"	16.7"	18.6"	13.8"	0.0	-25.7"
TRAJ: 600 yds. zero	-1.5"	13.9"	25.3"	31.5"	30.9"	21.4"	0.0
VELOCITY (fps)	3200	2839	2506	2197	1910	1649	1420
ENERGY (ft.-lbs.)	1364	1074	837	643	486	362	268
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-11.2"	-26.9"	-52.1"	-90.3"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.0"	-21.2"	-45.0"	-81.8"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.7"	0.0	-11.9"	-33.4"	-67.8"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.6"	8.9"	0.0	-18.5"	-50.0"
TRAJ: 500 yds. zero	-1.5"	10.4"	18.0"	20.0"	14.8"	0.0	-27.7"
TRAJ: 600 yds. zero	-1.5"	15.0"	27.3"	33.9"	33.3"	23.1"	0.0
VELOCITY (fps)	3100	2747	2421	2118	1837	1584	1364
ENERGY (ft.-lbs.)	1280	1005	781	597	450	334	248
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-12.2"	-29.1"	-56.4"	-97.7"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.5"	-22.9"	-48.6"	-88.3"
TRAJ: 300 yds. zero	-1.5"	4.1"	5.0"	0.0	-12.8"	-36.0"	-73.3"
TRAJ: 400 yds. zero	-1.5"	7.3"	11.4"	9.6"	0.0	-20.0"	-54.0"
TRAJ: 500 yds. zero	-1.5"	11.3"	19.4"	21.6"	16.0"	0.0	-30.0"
TRAJ: 600 yds. zero	-1.5"	16.3"	29.4"	36.6"	36.0"	25.0"	0.0
VELOCITY (fps)	3000	2655	2335	2038	1765	1520	1311
ENERGY (ft.-lbs.)	1199	939	726	553	415	308	229
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.3"	-31.6"	-61.2"	-106.0"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.1"	-24.7"	-52.6"	-95.6"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.4"	0.0	-13.9"	-39.0"	-79.4"
TRAJ: 400 yds. zero	-1.5"	7.9"	12.4"	10.4"	0.0	-21.7"	-58.6"
TRAJ: 500 yds. zero	-1.5"	12.2"	21.0"	23.4"	17.3"	0.0	-32.6"
TRAJ: 600 yds. zero	-1.5"	17.7"	31.9"	39.7"	39.0"	27.1"	0.0
VELOCITY (fps)	2900	2563	2249	1958	1692	1457	1260
ENERGY (ft.-lbs.)	1120	875	674	511	382	283	212
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.6"	-34.4"	-66.6"	-115.3"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.8"	-26.8"	-57.0"	-103.8"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.9"	0.0	-15.0"	-42.3"	-86.2"
TRAJ: 400 yds. zero	-1.5"	8.6"	13.4"	11.3"	0.0	-23.5"	-63.6"
TRAJ: 500 yds. zero	-1.5"	13.3"	22.8"	25.4"	18.8"	0.0	-35.4"
TRAJ: 600 yds. zero	-1.5"	19.2"	34.6"	43.1"	42.4"	29.5"	0.0
VELOCITY (fps)	2800	2470	2163	1879	1621	1396	1213
ENERGY (ft.-lbs.)	1044	813	623	470	350	259	196
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.9"	-37.6"	-72.6"	-125.7"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.6"	-29.1"	-62.0"	-113.0"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.4"	0.0	-16.3"	-46.0"	-93.8"
TRAJ: 400 yds. zero	-1.5"	9.4"	14.6"	12.2"	0.0	-25.6"	-69.3"
TRAJ: 500 yds. zero	-1.5"	14.5"	24.8"	27.6"	20.5"	0.0	-38.6"
TRAJ: 600 yds. zero	-1.5"	20.9"	37.7"	46.9"	46.2"	32.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2377	2077	1800	1551	1337	1168
ENERGY (ft.-lbs.)	971	753	574	432	320	238	182
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-17.5"	-41.1"	-79.4"	-137.3"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.5"	-31.8"	-67.7"	-123.2"
TRAJ: 300 yds. zero	-1.5"	5.8"	7.0"	0.0	-17.8"	-50.2"	-102.3"
TRAJ: 400 yds. zero	-1.5"	10.3"	15.9"	13.4"	0.0	-28.0"	-75.6"
TRAJ: 500 yds. zero	-1.5"	15.9"	27.1"	30.1"	22.4"	0.0	-42.1"
TRAJ: 600 yds. zero	-1.5"	22.9"	41.1"	51.2"	50.4"	35.0"	0.0
VELOCITY (fps)	2600	2284	1991	1721	1482	1281	1128
ENERGY (ft.-lbs.)	900	695	528	395	293	218	170
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-19.3"	-45.1"	-87.0"	-150.3"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.4"	-34.7"	-74.0"	-134.7"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.6"	0.0	-19.5"	-54.9"	-111.8"
TRAJ: 400 yds. zero	-1.5"	11.3"	17.4"	14.6"	0.0	-30.6"	-82.6"
TRAJ: 500 yds. zero	-1.5"	17.4"	29.6"	33.0"	24.5"	0.0	-45.9"
TRAJ: 600 yds. zero	-1.5"	25.1"	44.9"	55.9"	55.1"	38.3"	0.0
VELOCITY (fps)	2500	2191	1905	1644	1415	1228	1092
ENERGY (ft.-lbs.)	833	639	483	360	267	201	159
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-21.2"	-49.7"	-95.6"	-164.8"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.6"	-38.1"	-81.2"	-147.5"
TRAJ: 300 yds. zero	-1.5"	7.1"	8.4"	0.0	-21.3"	-60.2"	-122.3"
TRAJ: 400 yds. zero	-1.5"	12.4"	19.0"	16.0"	0.0	-33.6"	-90.3"
TRAJ: 500 yds. zero	-1.5"	19.1"	32.5"	36.1"	26.8"	0.0	-50.1"
TRAJ: 600 yds. zero	-1.5"	27.5"	49.2"	61.2"	60.2"	41.7"	0.0
VELOCITY (fps)	2400	2098	1819	1568	1351	1179	1059
ENERGY (ft.-lbs.)	767	586	441	328	243	185	149
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-23.5"	-54.8"	-105.3"	-180.9"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.8"	-41.9"	-89.2"	-161.5"
TRAJ: 300 yds. zero	-1.5"	7.8"	9.2"	0.0	-23.5"	-66.2"	-133.9"
TRAJ: 400 yds. zero	-1.5"	13.7"	20.9"	17.6"	0.0	-36.8"	-98.7"
TRAJ: 500 yds. zero	-1.5"	21.1"	35.7"	39.7"	29.5"	0.0	-54.5"
TRAJ: 600 yds. zero	-1.5"	30.1"	53.8"	67.0"	65.8"	45.4"	0.0
VELOCITY (fps)	2300	2005	1735	1494	1290	1135	1030
ENERGY (ft.-lbs.)	705	536	401	297	222	172	141
TRAJ: 100 yds. zero	-1.5"	0.0	-7.2"	-26.1"	-60.6"	-116.3"	-198.7"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-15.2"	-46.2"	-98.3"	-177.0"
TRAJ: 300 yds. zero	-1.5"	8.7"	10.2"	0.0	-25.9"	-72.8"	-146.5"
TRAJ: 400 yds. zero	-1.5"	15.2"	23.1"	19.4"	0.0	-40.5"	-107.7"
TRAJ: 500 yds. zero	-1.5"	23.3"	39.3"	43.7"	32.4"	0.0	-59.1"
TRAJ: 600 yds. zero	-1.5"	33.1"	59.0"	73.3"	71.8"	49.3"	0.0
VELOCITY (fps)	2200	1913	1652	1422	1233	1095	1003
ENERGY (ft.-lbs.)	645	487	363	269	202	160	134
TRAJ: 100 yds. zero	-1.5"	0.0	-8.1"	-29.0"	-67.3"	-128.5"	-218.2"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-16.9"	-51.1"	-108.3"	-194.0"
TRAJ: 300 yds. zero	-1.5"	9.7"	11.3"	0.0	-28.6"	-80.2"	-160.2"
TRAJ: 400 yds. zero	-1.5"	16.8"	25.6"	21.5"	0.0	-44.4"	-117.3"
TRAJ: 500 yds. zero	-1.5"	25.7"	43.3"	48.1"	35.6"	0.0	-63.9"
TRAJ: 600 yds. zero	-1.5"	36.4"	64.7"	80.1"	78.2"	53.3"	0.0
VELOCITY (fps)	2100	1821	1570	1352	1180	1060	979
ENERGY (ft.-lbs.)	587	442	328	244	185	150	128
TRAJ: 100 yds. zero	-1.5"	0.0	-9.1"	-32.3"	-74.8"	-142.2"	-239.5"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-18.8"	-56.6"	-119.5"	-212.3"
TRAJ: 300 yds. zero	-1.5"	10.8"	12.5"	0.0	-31.6"	-88.3"	-174.8"
TRAJ: 400 yds. zero	-1.5"	18.7"	28.3"	23.7"	0.0	-48.7"	-127.3"
TRAJ: 500 yds. zero	-1.5"	28.4"	47.8"	53.0"	39.0"	0.0	-68.9"
TRAJ: 600 yds. zero	-1.5"	39.9"	70.8"	87.4"	84.9"	57.4"	0.0
VELOCITY (fps)	2000	1730	1490	1287	1132	1028	955
ENERGY (ft.-lbs.)	533	399	296	221	171	141	122
TRAJ: 100 yds. zero	-1.5"	0.0	-10.2"	-36.2"	-83.3"	-157.3"	-262.7"
TRAJ: 200 yds. zero	-1.5"	5.1"	0.0	-20.9"	-62.9"	-131.8"	-232.1"
TRAJ: 300 yds. zero	-1.5"	12.1"	13.9"	0.0	-35.0"	-97.0"	-190.3"
TRAJ: 400 yds. zero	-1.5"	20.8"	31.4"	26.3"	0.0	-53.2"	-137.8"
TRAJ: 500 yds. zero	-1.5"	31.5"	52.7"	58.2"	42.5"	0.0	-74.0"
TRAJ: 600 yds. zero	-1.5"	43.8"	77.4"	95.2"	91.8"	61.6"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1900	1640	1412	1225	1090	1000	934
ENERGY (ft.-lbs.)	481	358	265	200	158	133	116
TRAJ: 100 yds. zero	-1.5"	0.0	-11.5"	-40.6"	-92.9"	-173.9"	-287.9"
TRAJ: 200 yds. zero	-1.5"	5.8"	0.0	-23.3"	-69.9"	-145.1"	-253.4"
TRAJ: 300 yds. zero	-1.5"	13.5"	15.5"	0.0	-38.8"	-106.3"	-206.7"
TRAJ: 400 yds. zero	-1.5"	23.2"	34.9"	29.1"	0.0	-57.8"	-148.6"
TRAJ: 500 yds. zero	-1.5"	34.8"	58.1"	63.8"	46.2"	0.0	-79.2"
TRAJ: 600 yds. zero	-1.5"	48.0"	84.5"	103.4"	99.1"	66.0"	0.0
VELOCITY (fps)	1800	1551	1337	1169	1052	973	913
ENERGY (ft.-lbs.)	432	320	238	182	148	126	111
TRAJ: 100 yds. zero	-1.5"	0.0	-13.1"	-45.7"	-103.7"	-192.2"	-315.3"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-26.1"	-77.6"	-159.6"	-276.2"
TRAJ: 300 yds. zero	-1.5"	15.2"	17.4"	0.0	-42.8"	-116.1"	-224.0"
TRAJ: 400 yds. zero	-1.5"	25.9"	38.8"	32.1"	0.0	-62.6"	-159.8"
TRAJ: 500 yds. zero	-1.5"	38.4"	63.8"	69.7"	50.1"	0.0	-84.7"
TRAJ: 600 yds. zero	-1.5"	52.6"	92.1"	112.0"	106.5"	70.6"	0.0

22 CALIBER (.224" Dia.) 68 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .194 BALLISTIC COEFFICIENT: .330

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3600	3273	2970	2686	2420	2169	1934
ENERGY (ft.-lbs.)	1957	1617	1331	1089	884	710	565
TRAJ: 100 yds. zero	-1.5"	0.0	-1.8"	-7.5"	-18.0"	-34.5"	-58.3"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-4.8"	-14.5"	-30.1"	-53.1"
TRAJ: 300 yds. zero	-1.5"	2.5"	3.2"	0.0	-8.0"	-22.0"	-43.4"
TRAJ: 400 yds. zero	-1.5"	4.5"	7.2"	6.0"	0.0	-12.0"	-31.4"
TRAJ: 500 yds. zero	-1.5"	6.9"	12.0"	13.2"	9.6"	0.0	-17.0"
TRAJ: 600 yds. zero	-1.5"	9.7"	17.7"	21.7"	20.9"	14.2"	0.0
VELOCITY (fps)	3500	3180	2883	2606	2344	2098	1867
ENERGY (ft.-lbs.)	1849	1527	1255	1025	829	664	526
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.1"	-19.4"	-37.0"	-62.5"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.2"	-15.5"	-32.1"	-56.7"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.4"	0.0	-8.6"	-23.5"	-46.3"
TRAJ: 400 yds. zero	-1.5"	4.8"	7.7"	6.4"	0.0	-12.8"	-33.5"
TRAJ: 500 yds. zero	-1.5"	7.4"	12.8"	14.1"	10.2"	0.0	-18.1"
TRAJ: 600 yds. zero	-1.5"	10.4"	18.9"	23.2"	22.3"	15.1"	0.0
VELOCITY (fps)	3400	3088	2797	2524	2267	2026	1800
ENERGY (ft.-lbs.)	1745	1439	1181	962	776	620	489
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-8.8"	-20.8"	-39.7"	-67.1"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.5"	-16.5"	-34.3"	-60.6"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.7"	0.0	-9.2"	-25.1"	-49.5"
TRAJ: 400 yds. zero	-1.5"	5.2"	8.3"	6.9"	0.0	-13.6"	-35.8"
TRAJ: 500 yds. zero	-1.5"	7.9"	13.7"	15.1"	10.9"	0.0	-19.4"
TRAJ: 600 yds. zero	-1.5"	11.2"	20.2"	24.8"	23.9"	16.2"	0.0
VELOCITY (fps)	3300	2995	2710	2442	2190	1954	1733
ENERGY (ft.-lbs.)	1644	1354	1109	901	724	576	454
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.5"	-22.5"	-42.7"	-72.1"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.9"	-17.7"	-36.8"	-65.0"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.0"	0.0	-9.8"	-26.9"	-53.1"
TRAJ: 400 yds. zero	-1.5"	5.6"	8.9"	7.4"	0.0	-14.6"	-38.4"
TRAJ: 500 yds. zero	-1.5"	8.5"	14.7"	16.1"	11.7"	0.0	-20.9"
TRAJ: 600 yds. zero	-1.5"	12.0"	21.7"	26.6"	25.6"	17.4"	0.0
VELOCITY (fps)	3200	2902	2623	2360	2113	1881	1667
ENERGY (ft.-lbs.)	1546	1271	1038	841	674	534	420
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.4"	-24.3"	-46.1"	-77.8"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.4"	-19.0"	-39.5"	-69.8"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.3"	0.0	-10.5"	-28.9"	-57.1"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.5"	7.9"	0.0	-15.7"	-41.3"
TRAJ: 500 yds. zero	-1.5"	9.2"	15.8"	17.3"	12.6"	0.0	-22.4"
TRAJ: 600 yds. zero	-1.5"	13.0"	23.3"	28.5"	27.5"	18.7"	0.0
VELOCITY (fps)	3100	2808	2535	2278	2035	1809	1601
ENERGY (ft.-lbs.)	1451	1191	970	783	625	494	387
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.3"	-26.3"	-49.8"	-84.0"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.9"	-20.5"	-42.5"	-75.3"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.6"	0.0	-11.3"	-31.1"	-61.5"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.3"	8.5"	0.0	-16.9"	-44.5"
TRAJ: 500 yds. zero	-1.5"	10.0"	17.0"	18.6"	13.5"	0.0	-24.2"
TRAJ: 600 yds. zero	-1.5"	14.0"	25.1"	30.7"	29.7"	20.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2715	2447	2195	1958	1737	1536
ENERGY (ft.-lbs.)	1359	1113	904	727	579	456	356
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.3"	-28.6"	-54.0"	-91.0"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.4"	-22.1"	-45.9"	-81.3"
TRAJ: 300 yds. zero	-1.5"	4.1"	5.0"	0.0	-12.2"	-33.5"	-66.5"
TRAJ: 400 yds. zero	-1.5"	7.1"	11.1"	9.2"	0.0	-18.3"	-48.1"
TRAJ: 500 yds. zero	-1.5"	10.8"	18.4"	20.1"	14.6"	0.0	-26.2"
TRAJ: 600 yds. zero	-1.5"	15.2"	27.1"	33.2"	32.1"	21.9"	0.0
VELOCITY (fps)	2900	2621	2359	2111	1880	1666	1473
ENERGY (ft.-lbs.)	1270	1037	840	673	534	419	327
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.4"	-31.1"	-58.7"	-98.9"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.1"	-24.0"	-49.7"	-88.1"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.4"	0.0	-13.2"	-36.3"	-72.0"
TRAJ: 400 yds. zero	-1.5"	7.8"	12.0"	9.9"	0.0	-19.8"	-52.2"
TRAJ: 500 yds. zero	-1.5"	11.7"	19.9"	21.8"	15.8"	0.0	-28.5"
TRAJ: 600 yds. zero	-1.5"	16.5"	29.4"	36.0"	34.8"	23.7"	0.0
VELOCITY (fps)	2800	2527	2270	2028	1803	1595	1411
ENERGY (ft.-lbs.)	1184	964	778	621	491	384	300
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.7"	-33.9"	-63.9"	-107.7"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.8"	-26.0"	-54.0"	-95.8"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.8"	0.0	-14.3"	-39.4"	-78.3"
TRAJ: 400 yds. zero	-1.5"	8.5"	13.0"	10.7"	0.0	-21.5"	-56.8"
TRAJ: 500 yds. zero	-1.5"	12.8"	21.6"	23.6"	17.2"	0.0	-31.0"
TRAJ: 600 yds. zero	-1.5"	17.9"	31.9"	39.1"	37.9"	25.8"	0.0
VELOCITY (fps)	2700	2433	2182	1945	1726	1526	1351
ENERGY (ft.-lbs.)	1101	894	718	571	450	352	276
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-16.1"	-37.1"	-69.8"	-117.6"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.5"	-28.3"	-58.8"	-104.4"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.4"	0.0	-15.6"	-42.9"	-85.3"
TRAJ: 400 yds. zero	-1.5"	9.3"	14.2"	11.7"	0.0	-23.4"	-61.9"
TRAJ: 500 yds. zero	-1.5"	14.0"	23.5"	25.8"	18.8"	0.0	-33.8"
TRAJ: 600 yds. zero	-1.5"	19.6"	34.8"	42.7"	41.3"	28.2"	0.0
VELOCITY (fps)	2600	2339	2093	1863	1650	1459	1294
ENERGY (ft.-lbs.)	1021	826	661	524	411	321	253
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-17.7"	-40.7"	-76.4"	-128.7"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.4"	-30.9"	-64.2"	-114.1"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.9"	0.0	-17.0"	-46.9"	-93.3"
TRAJ: 400 yds. zero	-1.5"	10.2"	15.4"	12.8"	0.0	-25.6"	-67.7"
TRAJ: 500 yds. zero	-1.5"	15.3"	25.7"	28.1"	20.5"	0.0	-37.0"
TRAJ: 600 yds. zero	-1.5"	21.5"	38.0"	46.6"	45.2"	30.8"	0.0
VELOCITY (fps)	2500	2245	2004	1780	1575	1393	1240
ENERGY (ft.-lbs.)	944	761	606	479	375	293	232
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-19.6"	-44.7"	-84.0"	-141.3"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.4"	-33.8"	-70.4"	-125.0"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.6"	0.0	-18.6"	-51.4"	-102.2"
TRAJ: 400 yds. zero	-1.5"	11.2"	16.9"	14.0"	0.0	-28.1"	-74.2"
TRAJ: 500 yds. zero	-1.5"	16.8"	28.2"	30.8"	22.5"	0.0	-40.5"
TRAJ: 600 yds. zero	-1.5"	23.5"	41.7"	51.1"	49.5"	33.8"	0.0
VELOCITY (fps)	2400	2150	1916	1699	1502	1331	1190
ENERGY (ft.-lbs.)	870	698	554	436	341	267	214
TRAJ: 100 yds. zero	-1.5"	0.0	-6.1"	-21.6"	-49.3"	-92.5"	-155.5"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-12.5"	-37.2"	-77.4"	-137.3"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.4"	0.0	-20.5"	-56.5"	-112.2"
TRAJ: 400 yds. zero	-1.5"	12.3"	18.6"	15.4"	0.0	-30.9"	-81.5"
TRAJ: 500 yds. zero	-1.5"	18.5"	30.9"	33.9"	24.7"	0.0	-44.5"
TRAJ: 600 yds. zero	-1.5"	25.9"	45.8"	56.1"	54.4"	37.1"	0.0
VELOCITY (fps)	2300	2056	1829	1619	1431	1271	1144
ENERGY (ft.-lbs.)	799	638	505	396	309	244	198
TRAJ: 100 yds. zero	-1.5"	0.0	-6.8"	-24.0"	-54.5"	-102.1"	-171.5"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-13.8"	-41.0"	-85.3"	-151.2"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.2"	0.0	-22.6"	-62.2"	-123.5"
TRAJ: 400 yds. zero	-1.5"	13.6"	20.5"	16.9"	0.0	-34.0"	-89.7"
TRAJ: 500 yds. zero	-1.5"	20.4"	34.1"	37.3"	27.2"	0.0	-48.9"
TRAJ: 600 yds. zero	-1.5"	28.6"	50.4"	61.8"	59.8"	40.7"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2200	1963	1742	1541	1363	1216	1103
ENERGY (ft.-lbs.)	731	581	458	358	281	223	184
TRAJ: 100 yds. zero	-1.5"	0.0	-7.6"	-26.7"	-60.5"	-113.1"	-189.4"
TRAJ: 200 yds. zero	-1.5"	3.8"	0.0	-15.3"	-45.3"	-94.2"	-166.7"
TRAJ: 300 yds. zero	-1.5"	8.9"	10.2"	0.0	-24.9"	-68.7"	-136.1"
TRAJ: 400 yds. zero	-1.5"	15.1"	22.7"	18.7"	0.0	-37.5"	-98.7"
TRAJ: 500 yds. zero	-1.5"	22.6"	37.7"	41.2"	30.0"	0.0	-53.7"
TRAJ: 600 yds. zero	-1.5"	31.6"	55.6"	68.1"	65.8"	44.7"	0.0
VELOCITY (fps)	2100	1869	1656	1464	1298	1165	1067
ENERGY (ft.-lbs.)	666	527	414	324	254	205	172
TRAJ: 100 yds. zero	-1.5"	0.0	-8.5"	-29.7"	-67.3"	-125.6"	-209.5"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-17.0"	-50.3"	-104.3"	-184.0"
TRAJ: 300 yds. zero	-1.5"	9.9"	11.3"	0.0	-27.6"	-76.0"	-150.0"
TRAJ: 400 yds. zero	-1.5"	16.8"	25.1"	20.7"	0.0	-41.5"	-108.5"
TRAJ: 500 yds. zero	-1.5"	25.1"	41.7"	45.6"	33.2"	0.0	-58.8"
TRAJ: 600 yds. zero	-1.5"	34.9"	61.3"	75.0"	72.4"	49.0"	0.0
VELOCITY (fps)	2000	1776	1572	1390	1237	1119	1035
ENERGY (ft.-lbs.)	604	476	373	292	231	189	162
TRAJ: 100 yds. zero	-1.5"	0.0	-9.6"	-33.3"	-75.1"	-139.7"	-231.8"
TRAJ: 200 yds. zero	-1.5"	4.8"	0.0	-18.9"	-55.9"	-115.7"	-203.1"
TRAJ: 300 yds. zero	-1.5"	11.1"	12.6"	0.0	-30.7"	-84.2"	-165.2"
TRAJ: 400 yds. zero	-1.5"	18.8"	28.0"	23.0"	0.0	-45.8"	-119.1"
TRAJ: 500 yds. zero	-1.5"	27.9"	46.3"	50.5"	36.7"	0.0	-64.2"
TRAJ: 600 yds. zero	-1.5"	38.6"	67.7"	82.6"	79.4"	53.5"	0.0
VELOCITY (fps)	1900	1684	1489	1319	1181	1079	1005
ENERGY (ft.-lbs.)	545	428	335	263	211	176	153
TRAJ: 100 yds. zero	-1.5"	0.0	-10.8"	-37.4"	-84.0"	-155.5"	-256.4"
TRAJ: 200 yds. zero	-1.5"	5.4"	0.0	-21.2"	-62.4"	-128.5"	-223.9"
TRAJ: 300 yds. zero	-1.5"	12.5"	14.1"	0.0	-34.2"	-93.3"	-181.6"
TRAJ: 400 yds. zero	-1.5"	21.0"	31.2"	25.6"	0.0	-50.6"	-130.4"
TRAJ: 500 yds. zero	-1.5"	31.1"	51.4"	56.0"	40.4"	0.0	-69.7"
TRAJ: 600 yds. zero	-1.5"	42.7"	74.6"	90.8"	86.9"	58.1"	0.0
VELOCITY (fps)	1800	1593	1409	1252	1130	1043	978
ENERGY (ft.-lbs.)	489	383	300	237	193	164	144
TRAJ: 100 yds. zero	-1.5"	0.0	-12.3"	-42.1"	-94.2"	-173.3"	-283.4"
TRAJ: 200 yds. zero	-1.5"	6.1"	0.0	-23.7"	-69.7"	-142.6"	-246.6"
TRAJ: 300 yds. zero	-1.5"	14.0"	15.8"	0.0	-38.0"	-103.1"	-199.2"
TRAJ: 400 yds. zero	-1.5"	23.5"	34.8"	28.5"	0.0	-55.6"	-142.1"
TRAJ: 500 yds. zero	-1.5"	34.7"	57.1"	61.9"	44.4"	0.0	-75.5"
TRAJ: 600 yds. zero	-1.5"	47.2"	82.2"	99.6"	94.8"	62.9"	0.0
VELOCITY (fps)	1700	1503	1331	1190	1085	1010	953
ENERGY (ft.-lbs.)	436	341	268	214	178	154	137
TRAJ: 100 yds. zero	-1.5"	0.0	-13.9"	-47.6"	-105.7"	-193.0"	-313.0"
TRAJ: 200 yds. zero	-1.5"	7.0"	0.0	-26.7"	-77.8"	-158.1"	-271.2"
TRAJ: 300 yds. zero	-1.5"	15.9"	17.8"	0.0	-42.3"	-113.7"	-217.9"
TRAJ: 400 yds. zero	-1.5"	26.4"	38.9"	31.7"	0.0	-60.8"	-154.4"
TRAJ: 500 yds. zero	-1.5"	38.6"	63.2"	68.2"	48.6"	0.0	-81.5"
TRAJ: 600 yds. zero	-1.5"	52.2"	90.4"	108.9"	102.9"	67.9"	0.0
VELOCITY (fps)	1600	1415	1257	1134	1045	980	928
ENERGY (ft.-lbs.)	386	302	239	194	165	145	130
TRAJ: 100 yds. zero	-1.5"	0.0	-15.9"	-53.9"	-118.7"	-214.7"	-345.4"
TRAJ: 200 yds. zero	-1.5"	8.0"	0.0	-30.0"	-86.9"	-174.9"	-297.6"
TRAJ: 300 yds. zero	-1.5"	18.0"	20.0"	0.0	-46.9"	-124.9"	-237.6"
TRAJ: 400 yds. zero	-1.5"	29.7"	43.4"	35.2"	0.0	-66.3"	-167.3"
TRAJ: 500 yds. zero	-1.5"	42.9"	70.0"	74.9"	53.0"	0.0	-87.7"
TRAJ: 600 yds. zero	-1.5"	57.6"	99.2"	118.8"	111.5"	73.1"	0.0

22 CALIBER (.227" Dia.) 70 GRAIN SPIRE POINT
SECTIONAL DENSITY: .194 BALLISTIC COEFFICIENT: .296

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3145	2818	2514	2229	1963	1718
ENERGY (ft.-lbs.)	1904	1537	1234	982	772	599	459
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.4"	-20.4"	-39.3"	-67.4"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.4"	-16.3"	-34.3"	-61.3"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.6"	0.0	-9.1"	-25.3"	-50.5"
TRAJ: 400 yds. zero	-1.5"	5.1"	8.2"	6.8"	0.0	-13.9"	-36.8"
TRAJ: 500 yds. zero	-1.5"	7.9"	13.7"	15.2"	11.1"	0.0	-20.2"
TRAJ: 600 yds. zero	-1.5"	11.2"	20.4"	25.2"	24.5"	16.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3053	2733	2434	2154	1894	1655
ENERGY (ft.-lbs.)	1796	1449	1161	921	721	558	426
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-9.2"	-22.0"	-42.3"	-72.4"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.8"	-17.5"	-36.7"	-65.6"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.9"	0.0	-9.8"	-27.0"	-54.0"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.7"	7.3"	0.0	-14.8"	-39.4"
TRAJ: 500 yds. zero	-1.5"	8.5"	14.7"	16.2"	11.9"	0.0	-21.6"
TRAJ: 600 yds. zero	-1.5"	12.1"	21.9"	27.0"	26.3"	18.0"	0.0
VELOCITY (fps)	3300	2961	2647	2354	2080	1825	1593
ENERGY (ft.-lbs.)	1692	1363	1089	861	672	518	394
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-9.9"	-23.7"	-45.5"	-77.9"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.2"	-18.7"	-39.3"	-70.5"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.1"	0.0	-10.4"	-29.0"	-58.0"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.4"	7.8"	0.0	-15.9"	-42.3"
TRAJ: 500 yds. zero	-1.5"	9.1"	15.7"	17.4"	12.7"	0.0	-23.2"
TRAJ: 600 yds. zero	-1.5"	13.0"	23.5"	29.0"	28.2"	19.4"	0.0
VELOCITY (fps)	3200	2869	2561	2273	2004	1756	1531
ENERGY (ft.-lbs.)	1591	1279	1019	803	624	479	364
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.8"	-25.6"	-49.1"	-84.0"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.7"	-20.1"	-42.3"	-75.8"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.5"	0.0	-11.2"	-31.1"	-62.4"
TRAJ: 400 yds. zero	-1.5"	6.4"	10.1"	8.4"	0.0	-17.1"	-45.6"
TRAJ: 500 yds. zero	-1.5"	9.8"	16.9"	18.7"	13.7"	0.0	-25.1"
TRAJ: 600 yds. zero	-1.5"	14.0"	25.3"	31.2"	30.4"	20.9"	0.0
VELOCITY (fps)	3100	2776	2475	2192	1929	1687	1471
ENERGY (ft.-lbs.)	1493	1198	952	747	578	442	336
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.8"	-27.8"	-53.2"	-90.9"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.2"	-21.7"	-45.6"	-81.8"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.8"	0.0	-12.1"	-33.6"	-67.4"
TRAJ: 400 yds. zero	-1.5"	6.9"	10.9"	9.1"	0.0	-18.5"	-49.2"
TRAJ: 500 yds. zero	-1.5"	10.6"	18.2"	20.1"	14.8"	0.0	-27.1"
TRAJ: 600 yds. zero	-1.5"	15.1"	27.3"	33.7"	32.8"	22.6"	0.0
VELOCITY (fps)	3000	2683	2388	2111	1854	1619	1412
ENERGY (ft.-lbs.)	1399	1119	886	693	534	407	310
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.8"	-30.1"	-57.6"	-98.5"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.8"	-23.4"	-49.3"	-88.5"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.2"	0.0	-13.0"	-36.3"	-72.9"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.7"	9.8"	0.0	-20.0"	-53.3"
TRAJ: 500 yds. zero	-1.5"	11.5"	19.7"	21.8"	16.0"	0.0	-29.4"
TRAJ: 600 yds. zero	-1.5"	16.4"	29.5"	36.4"	35.6"	24.5"	0.0
VELOCITY (fps)	2900	2590	2301	2030	1779	1552	1354
ENERGY (ft.-lbs.)	1307	1043	822	640	492	374	285
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-14.0"	-32.8"	-62.7"	-107.1"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.5"	-25.4"	-53.4"	-96.0"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.6"	0.0	-14.1"	-39.3"	-79.1"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.7"	10.6"	0.0	-21.7"	-57.9"
TRAJ: 500 yds. zero	-1.5"	12.5"	21.4"	23.6"	17.3"	0.0	-31.9"
TRAJ: 600 yds. zero	-1.5"	17.9"	32.0"	39.5"	38.6"	26.6"	0.0
VELOCITY (fps)	2800	2497	2213	1949	1705	1486	1299
ENERGY (ft.-lbs.)	1218	969	761	590	452	343	262
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-15.3"	-35.8"	-68.3"	-116.7"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.2"	-27.6"	-58.0"	-104.4"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.1"	0.0	-15.3"	-42.7"	-86.0"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.8"	11.5"	0.0	-23.6"	-63.0"
TRAJ: 500 yds. zero	-1.5"	13.7"	23.2"	25.6"	18.9"	0.0	-34.8"
TRAJ: 600 yds. zero	-1.5"	19.5"	34.8"	43.0"	42.0"	29.0"	0.0
VELOCITY (fps)	2700	2403	2126	1868	1631	1422	1247
ENERGY (ft.-lbs.)	1133	898	702	542	414	314	242
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.8"	-39.2"	-74.6"	-127.5"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.0"	-30.1"	-63.3"	-113.9"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.7"	0.0	-16.7"	-46.6"	-93.9"
TRAJ: 400 yds. zero	-1.5"	9.8"	15.0"	12.5"	0.0	-25.7"	-68.8"
TRAJ: 500 yds. zero	-1.5"	14.9"	25.3"	28.0"	20.6"	0.0	-37.9"
TRAJ: 600 yds. zero	-1.5"	21.3"	38.0"	46.9"	45.9"	31.6"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2600	2310	2038	1787	1559	1360	1199
ENERGY (ft.-lbs.)	1051	829	646	496	378	288	223
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-18.5"	-42.9"	-81.8"	-139.7"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.9"	-32.8"	-69.2"	-124.5"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.3"	0.0	-18.3"	-50.9"	-102.6"
TRAJ: 400 yds. zero	-1.5"	10.7"	16.4"	13.7"	0.0	-28.1"	-75.2"
TRAJ: 500 yds. zero	-1.5"	16.4"	27.7"	30.6"	22.5"	0.0	-41.5"
TRAJ: 600 yds. zero	-1.5"	23.3"	41.5"	51.3"	50.2"	34.6"	0.0
VELOCITY (fps)	2500	2216	1951	1707	1489	1301	1154
ENERGY (ft.-lbs.)	971	763	592	453	344	263	207
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-20.4"	-47.2"	-89.9"	-153.3"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-12.0"	-36.0"	-75.8"	-136.4"
TRAJ: 300 yds. zero	-1.5"	6.8"	8.0"	0.0	-20.0"	-55.9"	-112.4"
TRAJ: 400 yds. zero	-1.5"	11.8"	18.0"	15.0"	0.0	-30.8"	-82.4"
TRAJ: 500 yds. zero	-1.5"	18.0"	30.3"	33.5"	24.7"	0.0	-45.4"
TRAJ: 600 yds. zero	-1.5"	25.5"	45.5"	56.2"	54.9"	37.8"	0.0

6MM CALIBER (.243" Dia.) 70 GRAIN SPIRE POINT

SECTIONAL DENSITY: .169 BALLISTIC COEFFICIENT: .262

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3700	3282	2903	2554	2231	1932	1660
ENERGY (ft.-lbs.)	2127	1674	1310	1014	774	580	428
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.6"	-18.9"	-37.1"	-64.7"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.0"	-15.4"	-32.8"	-59.5"
TRAJ: 300 yds. zero	-1.5"	2.5"	3.3"	0.0	-8.7"	-24.4"	-49.5"
TRAJ: 400 yds. zero	-1.5"	4.7"	7.7"	6.5"	0.0	-13.5"	-36.4"
TRAJ: 500 yds. zero	-1.5"	7.4"	13.1"	14.6"	10.8"	0.0	-20.2"
TRAJ: 600 yds. zero	-1.5"	10.8"	19.8"	24.7"	24.3"	16.8"	0.0
VELOCITY (fps)	3600	3192	2820	2478	2160	1867	1602
ENERGY (ft.-lbs.)	2014	1583	1236	954	725	542	399
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.2"	-20.2"	-39.7"	-69.3"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.4"	-16.4"	-34.9"	-63.5"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.6"	0.0	-9.3"	-26.0"	-52.8"
TRAJ: 400 yds. zero	-1.5"	5.1"	8.2"	6.9"	0.0	-14.4"	-38.9"
TRAJ: 500 yds. zero	-1.5"	7.9"	14.0"	15.6"	11.5"	0.0	-21.6"
TRAJ: 600 yds. zero	-1.5"	11.5"	21.2"	26.4"	25.9"	18.0"	0.0
VELOCITY (fps)	3500	3101	2737	2401	2089	1802	1544
ENERGY (ft.-lbs.)	1904	1495	1164	896	678	504	371
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.9"	-21.8"	-42.7"	-74.3"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.7"	-17.5"	-37.3"	-67.9"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.9"	-27.8"	-56.5"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.8"	7.4"	0.0	-15.4"	-41.7"
TRAJ: 500 yds. zero	-1.5"	8.5"	14.9"	16.7"	12.3"	0.0	-23.2"
TRAJ: 600 yds. zero	-1.5"	12.4"	22.6"	28.2"	27.8"	19.3"	0.0
VELOCITY (fps)	3400	3010	2653	2323	2017	1737	1487
ENERGY (ft.-lbs.)	1796	1408	1094	839	632	469	344
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.7"	-23.5"	-45.9"	-79.9"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.1"	-18.8"	-40.0"	-72.9"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.1"	0.0	-10.6"	-29.7"	-60.6"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.4"	7.9"	0.0	-16.5"	-44.7"
TRAJ: 500 yds. zero	-1.5"	9.2"	16.0"	17.8"	13.2"	0.0	-24.9"
TRAJ: 600 yds. zero	-1.5"	13.3"	24.3"	30.3"	29.8"	20.7"	0.0
VELOCITY (fps)	3300	2919	2569	2245	1945	1672	1432
ENERGY (ft.-lbs.)	1692	1324	1026	783	588	434	318
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.5"	-25.3"	-49.4"	-86.1"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.6"	-20.1"	-42.9"	-78.3"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.4"	0.0	-11.3"	-31.9"	-65.1"
TRAJ: 400 yds. zero	-1.5"	6.3"	10.1"	8.5"	0.0	-17.8"	-48.1"
TRAJ: 500 yds. zero	-1.5"	9.9"	17.2"	19.2"	14.2"	0.0	-26.8"
TRAJ: 600 yds. zero	-1.5"	14.4"	26.1"	32.6"	32.1"	22.3"	0.0
VELOCITY (fps)	3200	2828	2484	2166	1873	1607	1377
ENERGY (ft.-lbs.)	1591	1243	959	729	545	401	295
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.4"	-27.4"	-53.4"	-93.0"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.1"	-21.7"	-46.2"	-84.4"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.7"	0.0	-12.2"	-34.4"	-70.2"
TRAJ: 400 yds. zero	-1.5"	6.8"	10.8"	9.1"	0.0	-19.1"	-51.9"
TRAJ: 500 yds. zero	-1.5"	10.7"	18.5"	20.6"	15.3"	0.0	-28.9"
TRAJ: 600 yds. zero	-1.5"	15.5"	28.1"	35.1"	34.6"	24.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2736	2399	2088	1801	1544	1324
ENERGY (ft.-lbs.)	1493	1163	895	677	504	370	273
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.4"	-29.7"	-57.8"	-100.7"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.7"	-23.4"	-49.9"	-91.2"
TRAJ: 300 yds. zero	-1.5"	4.1"	5.1"	0.0	-13.1"	-37.1"	-75.9"
TRAJ: 400 yds. zero	-1.5"	7.4"	11.7"	9.9"	0.0	-20.7"	-56.1"
TRAJ: 500 yds. zero	-1.5"	11.6"	20.0"	22.3"	16.5"	0.0	-31.3"
TRAJ: 600 yds. zero	-1.5"	16.8"	30.4"	37.9"	37.4"	26.1"	0.0
VELOCITY (fps)	3000	2644	2314	2009	1729	1481	1274
ENERGY (ft.-lbs.)	1399	1086	832	627	465	341	252
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.5"	-32.3"	-62.7"	-109.3"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.3"	-25.3"	-54.0"	-98.8"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.5"	0.0	-14.2"	-40.2"	-82.2"
TRAJ: 400 yds. zero	-1.5"	8.1"	12.6"	10.7"	0.0	-22.4"	-60.9"
TRAJ: 500 yds. zero	-1.5"	12.5"	21.6"	24.1"	17.9"	0.0	-34.0"
TRAJ: 600 yds. zero	-1.5"	18.2"	32.9"	41.1"	40.6"	28.3"	0.0
VELOCITY (fps)	2900	2551	2228	1930	1658	1420	1226
ENERGY (ft.-lbs.)	1307	1012	772	579	427	313	234
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.8"	-35.1"	-68.3"	-118.9"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-9.0"	-27.4"	-58.6"	-107.2"
TRAJ: 300 yds. zero	-1.5"	4.9"	6.0"	0.0	-15.4"	-43.6"	-89.3"
TRAJ: 400 yds. zero	-1.5"	8.8"	13.7"	11.6"	0.0	-24.3"	-66.2"
TRAJ: 500 yds. zero	-1.5"	13.7"	23.4"	26.2"	19.5"	0.0	-37.0"
TRAJ: 600 yds. zero	-1.5"	19.8"	35.7"	44.6"	44.1"	30.8"	0.0
VELOCITY (fps)	2800	2459	2143	1851	1588	1361	1181
ENERGY (ft.-lbs.)	1218	940	713	532	392	288	217
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-16.2"	-38.4"	-74.4"	-129.6"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.8"	-29.8"	-63.7"	-116.7"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.5"	0.0	-16.8"	-47.4"	-97.2"
TRAJ: 400 yds. zero	-1.5"	9.6"	14.9"	12.6"	0.0	-26.5"	-72.0"
TRAJ: 500 yds. zero	-1.5"	14.9"	25.5"	28.5"	21.2"	0.0	-40.2"
TRAJ: 600 yds. zero	-1.5"	21.6"	38.9"	48.6"	48.0"	33.5"	0.0
VELOCITY (fps)	2700	2366	2057	1773	1519	1304	1140
ENERGY (ft.-lbs.)	1133	870	657	488	359	264	202
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-17.8"	-42.0"	-81.4"	-141.5"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.7"	-32.5"	-69.5"	-127.3"
TRAJ: 300 yds. zero	-1.5"	5.9"	7.1"	0.0	-18.3"	-51.8"	-106.0"
TRAJ: 400 yds. zero	-1.5"	10.5"	16.2"	13.7"	0.0	-28.9"	-78.6"
TRAJ: 500 yds. zero	-1.5"	16.3"	27.8"	31.1"	23.2"	0.0	-43.8"
TRAJ: 600 yds. zero	-1.5"	23.6"	42.4"	53.0"	52.4"	36.5"	0.0
VELOCITY (fps)	2600	2274	1971	1695	1452	1251	1103
ENERGY (ft.-lbs.)	1051	803	604	447	328	243	189
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.6"	-46.1"	-89.3"	-154.9"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.7"	-35.5"	-76.1"	-139.1"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.8"	0.0	-20.0"	-56.7"	-115.8"
TRAJ: 400 yds. zero	-1.5"	11.5"	17.8"	15.0"	0.0	-31.7"	-85.8"
TRAJ: 500 yds. zero	-1.5"	17.9"	30.4"	34.0"	25.3"	0.0	-47.8"
TRAJ: 600 yds. zero	-1.5"	25.8"	46.4"	57.9"	57.2"	39.8"	0.0
VELOCITY (fps)	2500	2181	1886	1619	1387	1201	1070
ENERGY (ft.-lbs.)	971	739	553	407	299	224	178
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-21.6"	-50.7"	-98.1"	-169.7"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.8"	-39.0"	-83.4"	-152.1"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.5"	0.0	-21.9"	-62.1"	-126.5"
TRAJ: 400 yds. zero	-1.5"	12.7"	19.5"	16.4"	0.0	-34.7"	-93.6"
TRAJ: 500 yds. zero	-1.5"	19.6"	33.4"	37.3"	27.8"	0.0	-52.0"
TRAJ: 600 yds. zero	-1.5"	28.3"	50.7"	63.3"	62.4"	43.3"	0.0
VELOCITY (fps)	2400	2088	1801	1544	1325	1155	1040
ENERGY (ft.-lbs.)	895	678	504	370	273	207	168
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-23.9"	-55.9"	-108.0"	-186.1"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-14.1"	-42.9"	-91.7"	-166.5"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.4"	0.0	-24.1"	-68.2"	-138.3"
TRAJ: 400 yds. zero	-1.5"	14.0"	21.4"	18.1"	0.0	-38.1"	-102.1"
TRAJ: 500 yds. zero	-1.5"	21.6"	36.7"	40.9"	30.5"	0.0	-56.4"
TRAJ: 600 yds. zero	-1.5"	31.0"	55.5"	69.2"	68.1"	47.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2300	1996	1717	1471	1266	1114	1013
ENERGY (ft.-lbs.)	822	619	458	336	249	193	159
TRAJ: 100 yds. zero	-1.5"	0.0	-7.3"	-26.5"	-61.9"	-119.2"	-204.1"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-15.5"	-47.3"	-100.9"	-182.2"
TRAJ: 300 yds. zero	-1.5"	8.8"	10.4"	0.0	-26.6"	-75.0"	-151.1"
TRAJ: 400 yds. zero	-1.5"	15.5"	23.7"	19.9"	0.0	-41.8"	-111.2"
TRAJ: 500 yds. zero	-1.5"	23.8"	40.4"	45.0"	33.5"	0.0	-61.0"
TRAJ: 600 yds. zero	-1.5"	34.0"	60.7"	75.5"	74.1"	50.9"	0.0

6MM CALIBER (.243" Dia.) 70 GRAIN SX SPIRE POINT
SECTIONAL DENSITY: .169 BALLISTIC COEFFICIENT: .269

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3600	3202	2839	2503	2192	1904	1641
ENERGY (ft.-lbs.)	2014	1593	1252	974	747	563	419
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.1"	-19.9"	-39.0"	-67.8"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.3"	-16.1"	-34.3"	-62.0"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.5"	0.0	-9.1"	-25.5"	-51.5"
TRAJ: 400 yds. zero	-1.5"	5.0"	8.1"	6.8"	0.0	-14.1"	-37.8"
TRAJ: 500 yds. zero	-1.5"	7.8"	13.7"	15.3"	11.3"	0.0	-20.9"
TRAJ: 600 yds. zero	-1.5"	11.3"	20.7"	25.7"	25.2"	17.4"	0.0
VELOCITY (fps)	3500	3111	2755	2426	2120	1837	1582
ENERGY (ft.-lbs.)	1904	1504	1180	915	698	525	389
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.8"	-21.5"	-41.9"	-72.7"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.7"	-17.2"	-36.6"	-66.4"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.8"	0.0	-9.7"	-27.2"	-55.0"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.6"	7.3"	0.0	-15.1"	-40.5"
TRAJ: 500 yds. zero	-1.5"	8.4"	14.6"	16.3"	12.0"	0.0	-22.4"
TRAJ: 600 yds. zero	-1.5"	12.1"	22.1"	27.5"	27.0"	18.7"	0.0
VELOCITY (fps)	3400	3020	2671	2348	2048	1771	1524
ENERGY (ft.-lbs.)	1796	1417	1109	857	652	488	361
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.6"	-23.1"	-45.0"	-78.1"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.1"	-18.5"	-39.2"	-71.1"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.0"	0.0	-10.4"	-29.1"	-59.0"
TRAJ: 400 yds. zero	-1.5"	5.8"	9.2"	7.8"	0.0	-16.1"	-43.4"
TRAJ: 500 yds. zero	-1.5"	9.0"	15.7"	17.5"	12.9"	0.0	-24.1"
TRAJ: 600 yds. zero	-1.5"	13.0"	23.7"	29.5"	29.0"	20.1"	0.0
VELOCITY (fps)	3300	2929	2587	2269	1975	1705	1466
ENERGY (ft.-lbs.)	1692	1333	1040	800	606	452	334
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.4"	-24.9"	-48.5"	-84.2"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.5"	-19.8"	-42.1"	-76.4"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.3"	0.0	-11.1"	-31.2"	-63.4"
TRAJ: 400 yds. zero	-1.5"	6.2"	9.9"	8.3"	0.0	-17.3"	-46.7"
TRAJ: 500 yds. zero	-1.5"	9.7"	16.8"	18.7"	13.9"	0.0	-25.9"
TRAJ: 600 yds. zero	-1.5"	14.0"	25.5"	31.7"	31.2"	21.6"	0.0
VELOCITY (fps)	3200	2837	2502	2190	1902	1640	1410
ENERGY (ft.-lbs.)	1591	1251	973	746	562	418	309
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-11.3"	-27.0"	-52.4"	-90.9"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.0"	-21.3"	-45.3"	-82.3"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.7"	0.0	-12.0"	-33.6"	-68.3"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.6"	9.0"	0.0	-18.7"	-50.4"
TRAJ: 500 yds. zero	-1.5"	10.5"	18.1"	20.2"	14.9"	0.0	-28.0"
TRAJ: 600 yds. zero	-1.5"	15.1"	27.4"	34.2"	33.6"	23.3"	0.0
VELOCITY (fps)	3100	2745	2416	2111	1829	1575	1356
ENERGY (ft.-lbs.)	1493	1171	907	693	520	386	286
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-12.3"	-29.2"	-56.7"	-98.3"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.6"	-23.0"	-48.9"	-88.9"
TRAJ: 300 yds. zero	-1.5"	4.1"	5.0"	0.0	-12.9"	-36.3"	-73.8"
TRAJ: 400 yds. zero	-1.5"	7.3"	11.5"	9.7"	0.0	-20.2"	-54.5"
TRAJ: 500 yds. zero	-1.5"	11.3"	19.5"	21.8"	16.1"	0.0	-30.3"
TRAJ: 600 yds. zero	-1.5"	16.4"	29.6"	36.9"	36.3"	25.3"	0.0
VELOCITY (fps)	3000	2653	2331	2032	1757	1511	1303
ENERGY (ft.-lbs.)	1399	1094	844	641	480	355	264
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.4"	-31.8"	-61.5"	-106.7"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.2"	-24.8"	-52.9"	-96.3"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.4"	0.0	-13.9"	-39.2"	-80.0"
TRAJ: 400 yds. zero	-1.5"	7.9"	12.4"	10.4"	0.0	-21.8"	-59.1"
TRAJ: 500 yds. zero	-1.5"	12.3"	21.1"	23.5"	17.5"	0.0	-32.9"
TRAJ: 600 yds. zero	-1.5"	17.8"	32.1"	40.0"	39.4"	27.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2560	2245	1952	1685	1449	1253
ENERGY (ft.-lbs.)	1307	1019	783	592	441	326	244
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.6"	-34.6"	-66.9"	-116.1"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.9"	-26.9"	-57.3"	-104.6"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.9"	0.0	-15.1"	-42.6"	-86.8"
TRAJ: 400 yds. zero	-1.5"	8.6"	13.5"	11.3"	0.0	-23.7"	-64.2"
TRAJ: 500 yds. zero	-1.5"	13.4"	22.9"	25.5"	19.0"	0.0	-35.7"
TRAJ: 600 yds. zero	-1.5"	19.3"	34.9"	43.4"	42.8"	29.8"	0.0
VELOCITY (fps)	2800	2467	2159	1873	1614	1388	1206
ENERGY (ft.-lbs.)	1218	946	724	545	405	299	226
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-16.0"	-37.8"	-73.0"	-126.5"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.6"	-29.3"	-62.4"	-113.8"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.4"	0.0	-16.4"	-46.3"	-94.5"
TRAJ: 400 yds. zero	-1.5"	9.4"	14.6"	12.3"	0.0	-25.8"	-69.9"
TRAJ: 500 yds. zero	-1.5"	14.6"	25.0"	27.8"	20.6"	0.0	-38.9"
TRAJ: 600 yds. zero	-1.5"	21.1"	37.9"	47.3"	46.6"	32.4"	0.0
VELOCITY (fps)	2700	2375	2072	1794	1544	1330	1162
ENERGY (ft.-lbs.)	1133	876	667	500	370	275	210
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-17.6"	-41.3"	-79.8"	-138.2"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.5"	-31.9"	-68.1"	-124.1"
TRAJ: 300 yds. zero	-1.5"	5.9"	7.0"	0.0	-17.9"	-50.5"	-103.1"
TRAJ: 400 yds. zero	-1.5"	10.3"	16.0"	13.4"	0.0	-28.2"	-76.2"
TRAJ: 500 yds. zero	-1.5"	16.0"	27.2"	30.3"	22.5"	0.0	-42.4"
TRAJ: 600 yds. zero	-1.5"	23.0"	41.4"	51.5"	50.8"	35.4"	0.0
VELOCITY (fps)	2600	2282	1986	1716	1475	1274	1123
ENERGY (ft.-lbs.)	1051	809	613	458	338	252	196
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-19.3"	-45.3"	-87.5"	-151.3"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.5"	-34.9"	-74.4"	-135.6"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.7"	0.0	-19.6"	-55.3"	-112.7"
TRAJ: 400 yds. zero	-1.5"	11.3"	17.4"	14.7"	0.0	-30.8"	-83.3"
TRAJ: 500 yds. zero	-1.5"	17.5"	29.8"	33.2"	24.7"	0.0	-46.3"
TRAJ: 600 yds. zero	-1.5"	25.2"	45.2"	56.3"	55.5"	38.6"	0.0
VELOCITY (fps)	2500	2189	1901	1639	1409	1222	1087
ENERGY (ft.-lbs.)	971	745	561	417	309	232	184
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-21.3"	-49.9"	-96.2"	-165.9"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.6"	-38.3"	-81.6"	-148.5"
TRAJ: 300 yds. zero	-1.5"	7.1"	8.4"	0.0	-21.5"	-60.6"	-123.3"
TRAJ: 400 yds. zero	-1.5"	12.5"	19.1"	16.1"	0.0	-33.8"	-91.0"
TRAJ: 500 yds. zero	-1.5"	19.2"	32.7"	36.4"	27.0"	0.0	-50.5"
TRAJ: 600 yds. zero	-1.5"	27.6"	49.5"	61.6"	60.7"	42.1"	0.0
VELOCITY (fps)	2400	2096	1815	1563	1345	1174	1055
ENERGY (ft.-lbs.)	895	683	512	380	281	214	173
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-23.6"	-55.0"	-105.9"	-182.0"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.9"	-42.1"	-89.7"	-162.6"
TRAJ: 300 yds. zero	-1.5"	7.9"	9.2"	0.0	-23.6"	-66.6"	-134.9"
TRAJ: 400 yds. zero	-1.5"	13.8"	21.1"	17.7"	0.0	-37.1"	-99.5"
TRAJ: 500 yds. zero	-1.5"	21.2"	35.9"	40.0"	29.7"	0.0	-54.9"
TRAJ: 600 yds. zero	-1.5"	30.3"	54.2"	67.4"	66.3"	45.8"	0.0
VELOCITY (fps)	2300	2003	1731	1489	1285	1130	1026
ENERGY (ft.-lbs.)	822	624	466	344	256	198	164
TRAJ: 100 yds. zero	-1.5"	0.0	-7.2"	-26.1"	-60.9"	-116.9"	-199.8"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-15.3"	-46.5"	-98.8"	-178.2"
TRAJ: 300 yds. zero	-1.5"	8.7"	10.2"	0.0	-26.0"	-73.3"	-147.5"
TRAJ: 400 yds. zero	-1.5"	15.2"	23.2"	19.5"	0.0	-40.8"	-108.5"
TRAJ: 500 yds. zero	-1.5"	23.4"	39.5"	44.0"	32.6"	0.0	-59.6"
TRAJ: 600 yds. zero	-1.5"	33.3"	59.4"	73.8"	72.3"	49.6"	0.0

6MM CALIBER (.243" Dia.) 75 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .181 BALLISTIC COEFFICIENT: .294

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3600	3234	2898	2587	2295	2023	1772
ENERGY (ft.-lbs.)	2158	1742	1399	1114	877	682	523
TRAJ: 100 yds. zero	-1.5"	0.0	-1.8"	-7.8"	-19.0"	-36.8"	-63.2"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.1"	-15.3"	-32.2"	-57.7"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.4"	0.0	-8.6"	-23.8"	-47.5"
TRAJ: 400 yds. zero	-1.5"	4.8"	7.7"	6.4"	0.0	-13.1"	-34.7"
TRAJ: 500 yds. zero	-1.5"	7.4"	12.9"	14.3"	10.4"	0.0	-19.0"
TRAJ: 600 yds. zero	-1.5"	10.5"	19.2"	23.8"	23.1"	15.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3143	2814	2508	2222	1955	1709
ENERGY (ft.-lbs.)	2040	1645	1318	1047	822	636	486
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.5"	-20.5"	-39.5"	-67.7"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.4"	-16.4"	-34.4"	-61.6"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.6"	0.0	-9.2"	-25.4"	-50.8"
TRAJ: 400 yds. zero	-1.5"	5.1"	8.2"	6.9"	0.0	-13.9"	-37.0"
TRAJ: 500 yds. zero	-1.5"	7.9"	13.8"	15.2"	11.2"	0.0	-20.3"
TRAJ: 600 yds. zero	-1.5"	11.3"	20.5"	25.4"	24.7"	16.9"	0.0
VELOCITY (fps)	3400	3051	2729	2428	2147	1886	1646
ENERGY (ft.-lbs.)	1925	1550	1240	982	768	592	451
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-9.2"	-22.0"	-42.5"	-72.7"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.8"	-17.5"	-36.8"	-66.0"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.9"	0.0	-9.8"	-27.2"	-54.4"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.8"	7.3"	0.0	-14.9"	-39.7"
TRAJ: 500 yds. zero	-1.5"	8.5"	14.7"	16.3"	11.9"	0.0	-21.8"
TRAJ: 600 yds. zero	-1.5"	12.1"	22.0"	27.2"	26.5"	18.1"	0.0
VELOCITY (fps)	3300	2959	2643	2348	2072	1817	1584
ENERGY (ft.-lbs.)	1813	1458	1163	918	715	550	418
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-10.0"	-23.8"	-45.7"	-78.3"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.2"	-18.8"	-39.5"	-70.8"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.2"	0.0	-10.5"	-29.1"	-58.4"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.4"	7.9"	0.0	-16.0"	-42.6"
TRAJ: 500 yds. zero	-1.5"	9.1"	15.8"	17.5"	12.8"	0.0	-23.4"
TRAJ: 600 yds. zero	-1.5"	13.0"	23.6"	29.2"	28.4"	19.5"	0.0
VELOCITY (fps)	3200	2867	2557	2268	1997	1748	1523
ENERGY (ft.-lbs.)	1705	1368	1089	856	664	509	386
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.8"	-25.7"	-49.4"	-84.5"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.7"	-20.2"	-42.5"	-76.2"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.5"	0.0	-11.3"	-31.3"	-62.8"
TRAJ: 400 yds. zero	-1.5"	6.4"	10.1"	8.5"	0.0	-17.2"	-45.9"
TRAJ: 500 yds. zero	-1.5"	9.9"	17.0"	18.8"	13.8"	0.0	-25.2"
TRAJ: 600 yds. zero	-1.5"	14.1"	25.4"	31.4"	30.6"	21.0"	0.0
VELOCITY (fps)	3100	2774	2471	2187	1922	1679	1463
ENERGY (ft.-lbs.)	1600	1281	1016	796	615	470	356
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.8"	-27.9"	-53.4"	-91.4"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.2"	-21.8"	-45.8"	-82.3"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.8"	0.0	-12.1"	-33.7"	-67.8"
TRAJ: 400 yds. zero	-1.5"	7.0"	10.9"	9.1"	0.0	-18.6"	-49.6"
TRAJ: 500 yds. zero	-1.5"	10.7"	18.3"	20.2"	14.9"	0.0	-27.3"
TRAJ: 600 yds. zero	-1.5"	15.2"	27.4"	33.9"	33.1"	22.8"	0.0
VELOCITY (fps)	3000	2681	2384	2106	1847	1612	1404
ENERGY (ft.-lbs.)	1499	1197	946	738	568	432	328
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.9"	-30.2"	-57.9"	-99.1"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.8"	-23.5"	-49.5"	-89.0"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.2"	0.0	-13.1"	-36.5"	-73.4"
TRAJ: 400 yds. zero	-1.5"	7.6"	11.8"	9.8"	0.0	-20.1"	-53.7"
TRAJ: 500 yds. zero	-1.5"	11.6"	19.8"	21.9"	16.1"	0.0	-29.6"
TRAJ: 600 yds. zero	-1.5"	16.5"	29.7"	36.7"	35.8"	24.7"	0.0
VELOCITY (fps)	2900	2588	2297	2025	1773	1545	1347
ENERGY (ft.-lbs.)	1400	1115	878	682	523	397	302
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-14.1"	-32.9"	-62.9"	-107.7"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.5"	-25.5"	-53.7"	-96.5"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.7"	0.0	-14.2"	-39.5"	-79.6"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.7"	10.6"	0.0	-21.8"	-58.3"
TRAJ: 500 yds. zero	-1.5"	12.6"	21.5"	23.7"	17.4"	0.0	-32.2"
TRAJ: 600 yds. zero	-1.5"	17.9"	32.2"	39.8"	38.9"	26.8"	0.0
VELOCITY (fps)	2800	2495	2210	1943	1699	1479	1293
ENERGY (ft.-lbs.)	1305	1036	813	629	480	364	278
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-15.4"	-35.9"	-68.6"	-117.4"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.2"	-27.7"	-58.3"	-105.0"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.1"	0.0	-15.4"	-43.0"	-86.6"
TRAJ: 400 yds. zero	-1.5"	9.0"	13.8"	11.6"	0.0	-23.7"	-63.5"
TRAJ: 500 yds. zero	-1.5"	13.7"	23.3"	25.8"	19.0"	0.0	-35.0"
TRAJ: 600 yds. zero	-1.5"	19.6"	35.0"	43.3"	42.3"	29.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2401	2122	1863	1625	1416	1241
ENERGY (ft.-lbs.)	1214	960	750	578	440	334	256
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-16.9"	-39.3"	-75.0"	-128.2"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.0"	-30.2"	-63.6"	-114.5"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.7"	0.0	-16.8"	-46.9"	-94.5"
TRAJ: 400 yds. zero	-1.5"	9.8"	15.1"	12.6"	0.0	-25.9"	-69.3"
TRAJ: 500 yds. zero	-1.5"	15.0"	25.4"	28.1"	20.7"	0.0	-38.2"
TRAJ: 600 yds. zero	-1.5"	21.4"	38.2"	47.2"	46.2"	31.9"	0.0
VELOCITY (fps)	2600	2308	2035	1782	1553	1354	1193
ENERGY (ft.-lbs.)	1126	887	689	529	402	305	237
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-18.6"	-43.1"	-82.2"	-140.4"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-11.0"	-33.0"	-69.5"	-125.2"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.3"	0.0	-18.3"	-51.2"	-103.3"
TRAJ: 400 yds. zero	-1.5"	10.8"	16.5"	13.8"	0.0	-28.3"	-75.8"
TRAJ: 500 yds. zero	-1.5"	16.4"	27.8"	30.7"	22.6"	0.0	-41.8"
TRAJ: 600 yds. zero	-1.5"	23.4"	41.7"	51.6"	50.5"	34.8"	0.0
VELOCITY (fps)	2500	2214	1948	1703	1483	1296	1149
ENERGY (ft.-lbs.)	1041	816	632	483	366	279	220
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-20.5"	-47.4"	-90.3"	-154.1"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-12.0"	-36.2"	-76.2"	-137.2"
TRAJ: 300 yds. zero	-1.5"	6.8"	8.0"	0.0	-20.1"	-56.2"	-113.1"
TRAJ: 400 yds. zero	-1.5"	11.9"	18.1"	15.1"	0.0	-31.0"	-83.0"
TRAJ: 500 yds. zero	-1.5"	18.1"	30.5"	33.7"	24.8"	0.0	-45.7"
TRAJ: 600 yds. zero	-1.5"	25.7"	45.7"	56.6"	55.3"	38.1"	0.0
VELOCITY (fps)	2400	2121	1861	1624	1415	1240	1109
ENERGY (ft.-lbs.)	959	749	577	439	333	256	205
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-22.6"	-52.3"	-99.5"	-169.4"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-13.2"	-39.8"	-83.8"	-150.6"
TRAJ: 300 yds. zero	-1.5"	7.5"	8.8"	0.0	-22.1"	-61.7"	-124.1"
TRAJ: 400 yds. zero	-1.5"	13.1"	19.9"	16.6"	0.0	-34.1"	-91.0"
TRAJ: 500 yds. zero	-1.5"	19.9"	33.5"	37.0"	27.3"	0.0	-50.0"
TRAJ: 600 yds. zero	-1.5"	28.2"	50.2"	62.1"	60.6"	41.7"	0.0
VELOCITY (fps)	2300	2028	1775	1547	1349	1189	1074
ENERGY (ft.-lbs.)	881	685	525	399	303	235	192
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-25.1"	-57.9"	-109.9"	-186.5"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-14.6"	-43.8"	-92.3"	-165.5"
TRAJ: 300 yds. zero	-1.5"	8.4"	9.7"	0.0	-24.4"	-68.0"	-136.3"
TRAJ: 400 yds. zero	-1.5"	14.5"	21.9"	18.3"	0.0	-37.5"	-99.7"
TRAJ: 500 yds. zero	-1.5"	22.0"	36.9"	40.8"	30.0"	0.0	-54.7"
TRAJ: 600 yds. zero	-1.5"	31.1"	55.2"	68.1"	66.5"	45.6"	0.0

6MM CALIBER (.243" Dia.) 80 GRAIN FULL METAL JACKET
SECTIONAL DENSITY: .194 BALLISTIC COEFFICIENT: .261

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3100	2734	2397	2084	1796	1539
ENERGY (ft.-lbs.)	2176	1707	1328	1020	771	573	421
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.9"	-21.8"	-42.8"	-74.6"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.7"	-17.6"	-37.4"	-68.2"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.9"	-27.9"	-56.7"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.8"	7.4"	0.0	-15.5"	-41.8"
TRAJ: 500 yds. zero	-1.5"	8.6"	15.0"	16.7"	12.4"	0.0	-23.3"
TRAJ: 600 yds. zero	-1.5"	12.4"	22.7"	28.4"	27.9"	19.4"	0.0
VELOCITY (fps)	3400	3009	2651	2319	2012	1731	1482
ENERGY (ft.-lbs.)	2053	1608	1248	955	719	532	390
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.7"	-23.5"	-46.0"	-80.2"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.2"	-18.8"	-40.1"	-73.1"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.1"	0.0	-10.6"	-29.8"	-60.8"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.4"	8.0"	0.0	-16.6"	-44.9"
TRAJ: 500 yds. zero	-1.5"	9.2"	16.0"	17.9"	13.3"	0.0	-25.0"
TRAJ: 600 yds. zero	-1.5"	13.4"	24.4"	30.4"	29.9"	20.8"	0.0
VELOCITY (fps)	3300	2918	2567	2241	1940	1667	1427
ENERGY (ft.-lbs.)	1934	1512	1170	892	669	493	361
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.5"	-25.4"	-49.6"	-86.4"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.6"	-20.2"	-43.1"	-78.6"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.4"	0.0	-11.4"	-32.0"	-65.4"
TRAJ: 400 yds. zero	-1.5"	6.3"	10.1"	8.5"	0.0	-17.8"	-48.3"
TRAJ: 500 yds. zero	-1.5"	9.9"	17.2"	19.2"	14.3"	0.0	-26.9"
TRAJ: 600 yds. zero	-1.5"	14.4"	26.2"	32.7"	32.2"	22.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2826	2482	2163	1868	1602	1372
ENERGY (ft.-lbs.)	1819	1419	1094	831	620	456	334
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.4"	-27.5"	-53.5"	-93.3"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.1"	-21.7"	-46.4"	-84.7"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.7"	0.0	-12.2"	-34.5"	-70.5"
TRAJ: 400 yds. zero	-1.5"	6.9"	10.9"	9.2"	0.0	-19.2"	-52.1"
TRAJ: 500 yds. zero	-1.5"	10.7"	18.5"	20.7"	15.4"	0.0	-29.1"
TRAJ: 600 yds. zero	-1.5"	15.6"	28.2"	35.2"	34.8"	24.2"	0.0
VELOCITY (fps)	3100	2734	2397	2084	1797	1539	1320
ENERGY (ft.-lbs.)	1707	1328	1020	771	573	421	309
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.4"	-29.8"	-58.0"	-101.0"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.7"	-23.4"	-50.0"	-91.5"
TRAJ: 300 yds. zero	-1.5"	4.1"	5.1"	0.0	-13.2"	-37.2"	-76.2"
TRAJ: 400 yds. zero	-1.5"	7.4"	11.7"	9.9"	0.0	-20.8"	-56.4"
TRAJ: 500 yds. zero	-1.5"	11.6"	20.0"	22.3"	16.6"	0.0	-31.5"
TRAJ: 600 yds. zero	-1.5"	16.8"	30.5"	38.1"	37.6"	26.2"	0.0
VELOCITY (fps)	3000	2642	2312	2005	1725	1477	1270
ENERGY (ft.-lbs.)	1598	1240	949	714	529	387	286
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.6"	-32.3"	-62.9"	-109.6"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.3"	-25.3"	-54.1"	-99.1"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.5"	0.0	-14.2"	-40.3"	-82.5"
TRAJ: 400 yds. zero	-1.5"	8.1"	12.7"	10.7"	0.0	-22.5"	-61.1"
TRAJ: 500 yds. zero	-1.5"	12.6"	21.7"	24.2"	18.0"	0.0	-34.2"
TRAJ: 600 yds. zero	-1.5"	18.3"	33.0"	41.3"	40.8"	28.5"	0.0
VELOCITY (fps)	2900	2550	2226	1926	1654	1416	1222
ENERGY (ft.-lbs.)	1494	1155	880	659	486	356	265
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.8"	-35.2"	-68.5"	-119.3"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-9.0"	-27.5"	-58.8"	-107.6"
TRAJ: 300 yds. zero	-1.5"	4.9"	6.0"	0.0	-15.5"	-43.7"	-89.6"
TRAJ: 400 yds. zero	-1.5"	8.8"	13.7"	11.6"	0.0	-24.4"	-66.5"
TRAJ: 500 yds. zero	-1.5"	13.7"	23.5"	26.2"	19.5"	0.0	-37.1"
TRAJ: 600 yds. zero	-1.5"	19.9"	35.9"	44.8"	44.3"	30.9"	0.0
VELOCITY (fps)	2800	2458	2140	1848	1584	1357	1178
ENERGY (ft.-lbs.)	1392	1073	814	606	446	327	246
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-16.2"	-38.4"	-74.7"	-130.0"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.8"	-29.9"	-63.9"	-117.1"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.5"	0.0	-16.8"	-47.6"	-97.6"
TRAJ: 400 yds. zero	-1.5"	9.6"	14.9"	12.6"	0.0	-26.6"	-72.4"
TRAJ: 500 yds. zero	-1.5"	14.9"	25.6"	28.6"	21.3"	0.0	-40.4"
TRAJ: 600 yds. zero	-1.5"	21.7"	39.0"	48.8"	48.2"	33.7"	0.0
VELOCITY (fps)	2700	2365	2055	1770	1515	1301	1137
ENERGY (ft.-lbs.)	1295	993	750	556	408	300	230
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-17.8"	-42.1"	-81.7"	-142.0"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.7"	-32.6"	-69.8"	-127.8"
TRAJ: 300 yds. zero	-1.5"	5.9"	7.1"	0.0	-18.3"	-52.0"	-106.4"
TRAJ: 400 yds. zero	-1.5"	10.5"	16.3"	13.7"	0.0	-29.1"	-78.9"
TRAJ: 500 yds. zero	-1.5"	16.3"	27.9"	31.2"	23.2"	0.0	-44.0"
TRAJ: 600 yds. zero	-1.5"	23.7"	42.6"	53.2"	52.6"	36.7"	0.0
VELOCITY (fps)	2600	2272	1969	1692	1448	1247	1101
ENERGY (ft.-lbs.)	1201	917	689	509	373	276	215
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.6"	-46.2"	-89.5"	-155.4"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.7"	-35.6"	-76.3"	-139.6"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.8"	0.0	-20.0"	-56.9"	-116.2"
TRAJ: 400 yds. zero	-1.5"	11.5"	17.8"	15.0"	0.0	-31.8"	-86.1"
TRAJ: 500 yds. zero	-1.5"	17.9"	30.5"	34.1"	25.4"	0.0	-48.0"
TRAJ: 600 yds. zero	-1.5"	25.9"	46.5"	58.1"	57.4"	40.0"	0.0
VELOCITY (fps)	2500	2180	1884	1616	1384	1198	1068
ENERGY (ft.-lbs.)	1110	844	630	464	340	255	203
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-21.6"	-50.8"	-98.4"	-170.3"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.8"	-39.1"	-83.7"	-152.7"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.5"	0.0	-22.0"	-62.3"	-127.0"
TRAJ: 400 yds. zero	-1.5"	12.7"	19.5"	16.5"	0.0	-34.9"	-94.0"
TRAJ: 500 yds. zero	-1.5"	19.7"	33.5"	37.4"	27.9"	0.0	-52.2"
TRAJ: 600 yds. zero	-1.5"	28.4"	50.9"	63.5"	62.7"	43.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2400	2087	1799	1541	1322	1152	1038
ENERGY (ft.-lbs.)	1023	774	575	422	310	236	191
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-23.9"	-56.1"	-108.3"	-186.7"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-14.1"	-43.0"	-92.0"	-167.0"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.4"	0.0	-24.2"	-68.5"	-138.8"
TRAJ: 400 yds. zero	-1.5"	14.0"	21.5"	18.1"	0.0	-38.2"	-102.5"
TRAJ: 500 yds. zero	-1.5"	21.7"	36.8"	41.1"	30.6"	0.0	-56.7"
TRAJ: 600 yds. zero	-1.5"	31.1"	55.7"	69.4"	68.4"	47.2"	0.0
VELOCITY (fps)	2300	1995	1715	1468	1263	1111	1011
ENERGY (ft.-lbs.)	940	707	523	383	283	219	182
TRAJ: 100 yds. zero	-1.5"	0.0	-7.3"	-26.5"	-62.0"	-119.5"	-204.7"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-15.6"	-47.4"	-101.2"	-182.8"
TRAJ: 300 yds. zero	-1.5"	8.8"	10.4"	0.0	-26.7"	-75.3"	-151.6"
TRAJ: 400 yds. zero	-1.5"	15.5"	23.7"	20.0"	0.0	-42.0"	-111.6"
TRAJ: 500 yds. zero	-1.5"	23.9"	40.5"	45.2"	33.6"	0.0	-61.3"
TRAJ: 600 yds. zero	-1.5"	34.1"	60.9"	75.8"	74.4"	51.1"	0.0
VELOCITY (fps)	2200	1902	1633	1398	1208	1075	986
ENERGY (ft.-lbs.)	860	643	473	347	259	205	173
TRAJ: 100 yds. zero	-1.5"	0.0	-8.2"	-29.5"	-68.8"	-132.0"	-224.4"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-17.3"	-52.5"	-111.5"	-199.9"
TRAJ: 300 yds. zero	-1.5"	9.8"	11.5"	0.0	-29.4"	-82.8"	-165.4"
TRAJ: 400 yds. zero	-1.5"	17.2"	26.2"	22.1"	0.0	-46.0"	-121.2"
TRAJ: 500 yds. zero	-1.5"	26.4"	44.6"	49.7"	36.8"	0.0	-66.0"
TRAJ: 600 yds. zero	-1.5"	37.4"	66.6"	82.7"	80.8"	55.0"	0.0

6MM CALIBER (.243" Dia.) 80 GRAIN SINGLE SHOT PISTOL SPIRE POINT
SECTIONAL DENSITY: .194 BALLISTIC COEFFICIENT: .283

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3130	2789	2473	2179	1905	1655
ENERGY (ft.-lbs.)	2176	1740	1382	1086	843	645	486
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.6"	-20.9"	-40.5"	-69.7"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.5"	-16.7"	-35.3"	-63.5"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.7"	0.0	-9.4"	-26.1"	-52.5"
TRAJ: 400 yds. zero	-1.5"	5.2"	8.4"	7.0"	0.0	-14.4"	-38.4"
TRAJ: 500 yds. zero	-1.5"	8.1"	14.1"	15.7"	11.5"	0.0	-21.2"
TRAJ: 600 yds. zero	-1.5"	11.6"	21.2"	26.3"	25.6"	17.6"	0.0
VELOCITY (fps)	3400	3038	2704	2394	2105	1837	1594
ENERGY (ft.-lbs.)	2053	1639	1299	1018	787	600	451
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.3"	-22.5"	-43.5"	-74.9"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.9"	-17.9"	-37.8"	-68.1"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.9"	0.0	-10.0"	-27.9"	-56.2"
TRAJ: 400 yds. zero	-1.5"	5.6"	9.0"	7.5"	0.0	-15.4"	-41.2"
TRAJ: 500 yds. zero	-1.5"	8.7"	15.1"	16.8"	12.3"	0.0	-22.7"
TRAJ: 600 yds. zero	-1.5"	12.5"	22.7"	28.1"	27.5"	18.9"	0.0
VELOCITY (fps)	3300	2946	2619	2315	2031	1770	1534
ENERGY (ft.-lbs.)	1934	1542	1219	952	733	556	418
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-10.1"	-24.3"	-46.9"	-80.7"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.3"	-19.2"	-40.6"	-73.1"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.2"	0.0	-10.8"	-30.0"	-60.4"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.6"	8.1"	0.0	-16.5"	-44.3"
TRAJ: 500 yds. zero	-1.5"	9.4"	16.2"	18.0"	13.2"	0.0	-24.4"
TRAJ: 600 yds. zero	-1.5"	13.4"	24.4"	30.2"	29.5"	20.4"	0.0
VELOCITY (fps)	3200	2854	2534	2235	1957	1702	1475
ENERGY (ft.-lbs.)	1819	1447	1140	887	680	515	386
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-11.0"	-26.2"	-50.6"	-87.1"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.8"	-20.7"	-43.6"	-78.7"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.6"	0.0	-11.6"	-32.2"	-65.0"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.3"	8.7"	0.0	-17.8"	-47.7"
TRAJ: 500 yds. zero	-1.5"	10.1"	17.5"	19.3"	14.2"	0.0	-26.4"
TRAJ: 600 yds. zero	-1.5"	14.5"	26.2"	32.5"	31.8"	22.0"	0.0
VELOCITY (fps)	3100	2762	2448	2155	1883	1635	1417
ENERGY (ft.-lbs.)	1707	1355	1064	825	630	475	356
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-12.0"	-28.4"	-54.7"	-94.2"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.4"	-22.3"	-47.0"	-85.0"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.9"	0.0	-12.4"	-34.8"	-70.2"
TRAJ: 400 yds. zero	-1.5"	7.1"	11.1"	9.3"	0.0	-19.2"	-51.6"
TRAJ: 500 yds. zero	-1.5"	10.9"	18.8"	20.9"	15.4"	0.0	-28.5"
TRAJ: 600 yds. zero	-1.5"	15.7"	28.3"	35.1"	34.4"	23.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2669	2361	2075	1809	1569	1360
ENERGY (ft.-lbs.)	1598	1265	990	764	581	437	329
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-13.1"	-30.9"	-59.4"	-102.2"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.0"	-24.1"	-50.9"	-92.0"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.3"	0.0	-13.4"	-37.6"	-76.0"
TRAJ: 400 yds. zero	-1.5"	7.7"	12.0"	10.1"	0.0	-20.8"	-55.9"
TRAJ: 500 yds. zero	-1.5"	11.9"	20.3"	22.6"	16.6"	0.0	-30.9"
TRAJ: 600 yds. zero	-1.5"	17.0"	30.7"	38.0"	37.2"	25.8"	0.0
VELOCITY (fps)	2900	2576	2275	1994	1736	1504	1306
ENERGY (ft.-lbs.)	1494	1179	919	706	535	402	303
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.3"	-33.6"	-64.6"	-111.1"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.6"	-26.1"	-55.2"	-99.8"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.8"	0.0	-14.6"	-40.8"	-82.5"
TRAJ: 400 yds. zero	-1.5"	8.4"	13.0"	10.9"	0.0	-22.6"	-60.7"
TRAJ: 500 yds. zero	-1.5"	12.9"	22.1"	24.5"	18.1"	0.0	-33.6"
TRAJ: 600 yds. zero	-1.5"	18.5"	33.3"	41.3"	40.5"	28.0"	0.0
VELOCITY (fps)	2800	2483	2188	1914	1663	1440	1255
ENERGY (ft.-lbs.)	1392	1095	850	650	491	368	280
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.6"	-36.7"	-70.4"	-121.1"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.4"	-28.3"	-60.0"	-108.6"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.3"	0.0	-15.8"	-44.3"	-89.8"
TRAJ: 400 yds. zero	-1.5"	9.2"	14.2"	11.9"	0.0	-24.6"	-66.1"
TRAJ: 500 yds. zero	-1.5"	14.1"	24.0"	26.6"	19.6"	0.0	-36.6"
TRAJ: 600 yds. zero	-1.5"	20.2"	36.2"	44.9"	44.1"	30.5"	0.0
VELOCITY (fps)	2700	2390	2101	1834	1591	1379	1206
ENERGY (ft.-lbs.)	1295	1015	784	597	449	338	258
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-17.2"	-40.1"	-77.0"	-132.3"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.2"	-30.9"	-65.4"	-118.4"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.8"	0.0	-17.2"	-48.4"	-98.0"
TRAJ: 400 yds. zero	-1.5"	10.0"	15.4"	12.9"	0.0	-26.8"	-72.1"
TRAJ: 500 yds. zero	-1.5"	15.4"	26.2"	29.0"	21.4"	0.0	-40.0"
TRAJ: 600 yds. zero	-1.5"	22.1"	39.5"	49.0"	48.1"	33.3"	0.0
VELOCITY (fps)	2600	2297	2015	1754	1520	1320	1162
ENERGY (ft.-lbs.)	1201	937	721	547	410	309	240
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-18.9"	-44.0"	-84.4"	-144.9"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.2"	-33.8"	-71.5"	-129.5"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.5"	0.0	-18.8"	-52.9"	-107.1"
TRAJ: 400 yds. zero	-1.5"	11.0"	16.9"	14.1"	0.0	-29.3"	-78.8"
TRAJ: 500 yds. zero	-1.5"	16.9"	28.6"	31.7"	23.5"	0.0	-43.6"
TRAJ: 600 yds. zero	-1.5"	24.1"	43.2"	53.6"	52.6"	36.4"	0.0
VELOCITY (fps)	2500	2204	1928	1676	1452	1264	1121
ENERGY (ft.-lbs.)	1110	862	660	499	374	284	223
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-20.8"	-48.4"	-92.7"	-158.9"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.3"	-37.0"	-78.4"	-141.8"
TRAJ: 300 yds. zero	-1.5"	6.9"	8.2"	0.0	-20.7"	-58.0"	-117.3"
TRAJ: 400 yds. zero	-1.5"	12.1"	18.5"	15.5"	0.0	-32.2"	-86.3"
TRAJ: 500 yds. zero	-1.5"	18.5"	31.4"	34.8"	25.7"	0.0	-47.7"
TRAJ: 600 yds. zero	-1.5"	26.5"	47.3"	58.6"	57.5"	39.8"	0.0
VELOCITY (fps)	2400	2110	1842	1598	1385	1211	1085
ENERGY (ft.-lbs.)	1023	791	603	454	341	261	209
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-23.0"	-53.4"	-102.1"	-174.6"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.5"	-40.7"	-86.2"	-155.6"
TRAJ: 300 yds. zero	-1.5"	7.7"	9.0"	0.0	-22.7"	-63.7"	-128.6"
TRAJ: 400 yds. zero	-1.5"	13.4"	20.4"	17.0"	0.0	-35.3"	-94.5"
TRAJ: 500 yds. zero	-1.5"	20.4"	34.5"	38.2"	28.3"	0.0	-52.1"
TRAJ: 600 yds. zero	-1.5"	29.1"	51.9"	64.3"	63.0"	43.4"	0.0
VELOCITY (fps)	2300	2017	1757	1523	1322	1163	1053
ENERGY (ft.-lbs.)	940	723	548	412	310	240	197
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-25.5"	-59.1"	-112.7"	-192.0"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-14.9"	-44.9"	-95.0"	-170.7"
TRAJ: 300 yds. zero	-1.5"	8.5"	9.9"	0.0	-25.1"	-70.2"	-141.0"
TRAJ: 400 yds. zero	-1.5"	14.8"	22.5"	18.8"	0.0	-38.9"	-103.4"
TRAJ: 500 yds. zero	-1.5"	22.5"	38.0"	42.1"	31.1"	0.0	-56.7"
TRAJ: 600 yds. zero	-1.5"	32.0"	56.9"	70.5"	68.9"	47.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2200	1925	1673	1449	1261	1120	1024
ENERGY (ft.-lbs.)	860	658	497	373	283	223	186
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-28.4"	-65.6"	-124.7"	-211.3"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-16.5"	-49.7"	-104.8"	-187.4"
TRAJ: 300 yds. zero	-1.5"	9.5"	11.0"	0.0	-27.7"	-77.4"	-154.4"
TRAJ: 400 yds. zero	-1.5"	16.4"	24.8"	20.8"	0.0	-42.8"	-112.9"
TRAJ: 500 yds. zero	-1.5"	24.9"	41.9"	46.4"	34.2"	0.0	-61.6"
TRAJ: 600 yds. zero	-1.5"	35.2"	62.5"	77.2"	75.3"	51.3"	0.0

6MM CALIBER (.243" Dia.) 87 GRAIN SPIRE POINT
SECTIONAL DENSITY: .210 BALLISTIC COEFFICIENT: .327

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3085	2792	2517	2258	2015	1788
ENERGY (ft.-lbs.)	2233	1838	1505	1224	985	784	618
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-8.8"	-20.9"	-39.9"	-67.5"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.6"	-16.6"	-34.5"	-61.0"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.7"	0.0	-9.2"	-25.2"	-49.9"
TRAJ: 400 yds. zero	-1.5"	5.2"	8.3"	6.9"	0.0	-13.7"	-36.1"
TRAJ: 500 yds. zero	-1.5"	8.0"	13.8"	15.1"	11.0"	0.0	-19.6"
TRAJ: 600 yds. zero	-1.5"	11.2"	20.3"	24.9"	24.0"	16.3"	0.0
VELOCITY (fps)	3300	2992	2705	2435	2181	1943	1722
ENERGY (ft.-lbs.)	2103	1729	1413	1145	919	729	573
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.6"	-22.6"	-43.0"	-72.6"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.0"	-17.8"	-37.0"	-65.4"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.0"	0.0	-9.9"	-27.0"	-53.5"
TRAJ: 400 yds. zero	-1.5"	5.6"	8.9"	7.4"	0.0	-14.7"	-38.7"
TRAJ: 500 yds. zero	-1.5"	8.6"	14.8"	16.2"	11.8"	0.0	-21.0"
TRAJ: 600 yds. zero	-1.5"	12.1"	21.8"	26.7"	25.8"	17.5"	0.0
VELOCITY (fps)	3200	2899	2618	2353	2104	1871	1656
ENERGY (ft.-lbs.)	1978	1623	1324	1070	855	676	530
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.4"	-24.4"	-46.3"	-78.2"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.4"	-19.1"	-39.7"	-70.3"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.3"	0.0	-10.6"	-29.0"	-57.5"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.6"	7.9"	0.0	-15.8"	-41.6"
TRAJ: 500 yds. zero	-1.5"	9.3"	15.9"	17.4"	12.7"	0.0	-22.6"
TRAJ: 600 yds. zero	-1.5"	13.0"	23.4"	28.7"	27.7"	18.9"	0.0
VELOCITY (fps)	3100	2806	2530	2271	2027	1799	1590
ENERGY (ft.-lbs.)	1856	1521	1236	996	793	625	489
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.3"	-26.5"	-50.1"	-84.6"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.9"	-20.6"	-42.8"	-75.8"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.6"	0.0	-11.4"	-31.3"	-61.9"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.3"	8.5"	0.0	-17.0"	-44.9"
TRAJ: 500 yds. zero	-1.5"	10.0"	17.1"	18.8"	13.6"	0.0	-24.4"
TRAJ: 600 yds. zero	-1.5"	14.1"	25.3"	31.0"	29.9"	20.4"	0.0
VELOCITY (fps)	3000	2712	2442	2188	1949	1728	1526
ENERGY (ft.-lbs.)	1738	1421	1152	925	734	576	450
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.3"	-28.7"	-54.3"	-91.6"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.5"	-22.2"	-46.2"	-81.9"
TRAJ: 300 yds. zero	-1.5"	4.1"	5.0"	0.0	-12.3"	-33.7"	-66.9"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.1"	9.2"	0.0	-18.4"	-48.5"
TRAJ: 500 yds. zero	-1.5"	10.9"	18.5"	20.2"	14.7"	0.0	-26.5"
TRAJ: 600 yds. zero	-1.5"	15.3"	27.3"	33.5"	32.4"	22.0"	0.0
VELOCITY (fps)	2900	2619	2354	2105	1872	1656	1463
ENERGY (ft.-lbs.)	1624	1324	1070	856	677	530	413
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.5"	-31.2"	-59.0"	-99.5"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.1"	-24.1"	-50.0"	-88.7"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.4"	0.0	-13.3"	-36.5"	-72.6"
TRAJ: 400 yds. zero	-1.5"	7.8"	12.0"	10.0"	0.0	-19.9"	-52.6"
TRAJ: 500 yds. zero	-1.5"	11.8"	20.0"	21.9"	15.9"	0.0	-28.7"
TRAJ: 600 yds. zero	-1.5"	16.6"	29.6"	36.3"	35.1"	23.9"	0.0
VELOCITY (fps)	2800	2525	2266	2022	1795	1586	1401
ENERGY (ft.-lbs.)	1514	1231	991	790	622	486	379
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.7"	-34.1"	-64.2"	-108.4"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.8"	-26.1"	-54.3"	-96.5"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.9"	0.0	-14.4"	-39.7"	-78.9"
TRAJ: 400 yds. zero	-1.5"	8.5"	13.1"	10.8"	0.0	-21.7"	-57.3"
TRAJ: 500 yds. zero	-1.5"	12.8"	21.7"	23.8"	17.3"	0.0	-31.3"
TRAJ: 600 yds. zero	-1.5"	18.1"	32.2"	39.4"	38.2"	26.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2431	2177	1939	1718	1518	1342
ENERGY (ft.-lbs.)	1408	1141	915	726	570	445	348
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-16.2"	-37.2"	-70.2"	-118.3"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.6"	-28.4"	-59.2"	-105.1"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.4"	0.0	-15.7"	-43.2"	-86.0"
TRAJ: 400 yds. zero	-1.5"	9.3"	14.2"	11.8"	0.0	-23.6"	-62.5"
TRAJ: 500 yds. zero	-1.5"	14.0"	23.7"	25.9"	18.9"	0.0	-34.1"
TRAJ: 600 yds. zero	-1.5"	19.7"	35.0"	43.0"	41.6"	28.4"	0.0
VELOCITY (fps)	2600	2336	2088	1856	1643	1451	1286
ENERGY (ft.-lbs.)	1306	1054	842	666	521	406	319
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-17.8"	-40.8"	-76.9"	-129.6"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.5"	-31.1"	-64.6"	-114.9"
TRAJ: 300 yds. zero	-1.5"	5.9"	7.0"	0.0	-17.1"	-47.2"	-94.0"
TRAJ: 400 yds. zero	-1.5"	10.2"	15.5"	12.8"	0.0	-25.8"	-68.3"
TRAJ: 500 yds. zero	-1.5"	15.4"	25.8"	28.3"	20.6"	0.0	-37.3"
TRAJ: 600 yds. zero	-1.5"	21.6"	38.3"	47.0"	45.5"	31.1"	0.0
VELOCITY (fps)	2500	2242	2000	1774	1568	1386	1232
ENERGY (ft.-lbs.)	1207	971	773	608	475	371	293
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-19.6"	-44.9"	-84.4"	-142.2"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.5"	-34.0"	-70.8"	-125.9"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.6"	0.0	-18.7"	-51.7"	-103.0"
TRAJ: 400 yds. zero	-1.5"	11.2"	17.0"	14.1"	0.0	-28.3"	-74.9"
TRAJ: 500 yds. zero	-1.5"	16.9"	28.3"	31.0"	22.6"	0.0	-40.9"
TRAJ: 600 yds. zero	-1.5"	23.7"	42.0"	51.5"	49.9"	34.1"	0.0
VELOCITY (fps)	2400	2148	1912	1693	1496	1323	1183
ENERGY (ft.-lbs.)	1113	891	706	554	432	338	270
TRAJ: 100 yds. zero	-1.5"	0.0	-6.1"	-21.7"	-49.5"	-93.0"	-156.5"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-12.6"	-37.4"	-77.8"	-138.3"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.4"	0.0	-20.6"	-56.8"	-113.1"
TRAJ: 400 yds. zero	-1.5"	12.4"	18.7"	15.4"	0.0	-31.1"	-82.2"
TRAJ: 500 yds. zero	-1.5"	18.6"	31.1"	34.1"	24.9"	0.0	-44.9"
TRAJ: 600 yds. zero	-1.5"	26.1"	46.1"	56.5"	54.8"	37.4"	0.0
VELOCITY (fps)	2300	2054	1825	1614	1425	1265	1138
ENERGY (ft.-lbs.)	1022	815	643	503	392	309	250
TRAJ: 100 yds. zero	-1.5"	0.0	-6.8"	-24.0"	-54.8"	-102.7"	-172.6"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-13.9"	-41.2"	-85.8"	-152.2"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.3"	0.0	-22.7"	-62.6"	-124.5"
TRAJ: 400 yds. zero	-1.5"	13.7"	20.6"	17.0"	0.0	-34.3"	-90.4"
TRAJ: 500 yds. zero	-1.5"	20.5"	34.3"	37.6"	27.4"	0.0	-49.3"
TRAJ: 600 yds. zero	-1.5"	28.8"	50.7"	62.2"	60.3"	41.1"	0.0
VELOCITY (fps)	2200	1960	1738	1535	1357	1210	1098
ENERGY (ft.-lbs.)	935	742	583	455	356	283	233
TRAJ: 100 yds. zero	-1.5"	0.0	-7.6"	-26.7"	-60.7"	-113.7"	-190.6"
TRAJ: 200 yds. zero	-1.5"	3.8"	0.0	-15.4"	-45.6"	-94.8"	-167.8"
TRAJ: 300 yds. zero	-1.5"	8.9"	10.2"	0.0	-25.1"	-69.2"	-137.1"
TRAJ: 400 yds. zero	-1.5"	15.2"	22.8"	18.8"	0.0	-37.8"	-99.5"
TRAJ: 500 yds. zero	-1.5"	22.7"	37.9"	41.5"	30.2"	0.0	-54.1"
TRAJ: 600 yds. zero	-1.5"	31.8"	55.9"	68.5"	66.3"	45.1"	0.0

6MM CALIBER (.243" Dia.) 87 GRAIN BOAT TAIL HOLLOW POINT
SECTIONAL DENSITY: .210 BALLISTIC COEFFICIENT: .376

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3600	3311	3042	2788	2548	2321	2105
ENERGY (ft.-lbs.)	2503	2118	1787	1501	1254	1040	856
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.1"	-17.0"	-32.3"	-54.0"
TRAJ: 200 yds. zero	-1.5"	0.8"	0.0	-4.6"	-13.7"	-28.1"	-49.0"
TRAJ: 300 yds. zero	-1.5"	2.4"	3.1"	0.0	-7.5"	-20.4"	-39.8"
TRAJ: 400 yds. zero	-1.5"	4.3"	6.8"	5.7"	0.0	-11.0"	-28.5"
TRAJ: 500 yds. zero	-1.5"	6.5"	11.2"	12.3"	8.8"	0.0	-15.3"
TRAJ: 600 yds. zero	-1.5"	9.0"	16.3"	19.9"	19.0"	12.7"	0.0
VELOCITY (fps)	3500	3218	2954	2705	2470	2247	2035
ENERGY (ft.-lbs.)	2366	2000	1686	1414	1178	975	800
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-7.7"	-18.3"	-34.6"	-57.8"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-4.9"	-14.6"	-30.0"	-52.3"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.3"	0.0	-8.0"	-21.8"	-42.4"
TRAJ: 400 yds. zero	-1.5"	4.6"	7.3"	6.0"	0.0	-11.7"	-30.4"
TRAJ: 500 yds. zero	-1.5"	6.9"	12.0"	13.1"	9.4"	0.0	-16.3"
TRAJ: 600 yds. zero	-1.5"	9.6"	17.4"	21.2"	20.2"	13.6"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3125	2866	2622	2391	2172	1964
ENERGY (ft.-lbs.)	2233	1886	1587	1328	1104	911	745
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.4"	-19.7"	-37.2"	-62.0"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.3"	-15.6"	-32.0"	-55.8"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.5"	0.0	-8.6"	-23.2"	-45.3"
TRAJ: 400 yds. zero	-1.5"	4.9"	7.8"	6.4"	0.0	-12.5"	-32.4"
TRAJ: 500 yds. zero	-1.5"	7.4"	12.8"	13.9"	10.0"	0.0	-17.4"
TRAJ: 600 yds. zero	-1.5"	10.3"	18.6"	22.6"	21.6"	14.5"	0.0
VELOCITY (fps)	3300	3031	2778	2539	2312	2097	1893
ENERGY (ft.-lbs.)	2103	1774	1491	1245	1032	849	692
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.1"	-21.3"	-40.0"	-66.7"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.7"	-16.7"	-34.3"	-59.8"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.2"	-24.9"	-48.5"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.4"	6.9"	0.0	-13.4"	-34.7"
TRAJ: 500 yds. zero	-1.5"	8.0"	13.7"	14.9"	10.7"	0.0	-18.6"
TRAJ: 600 yds. zero	-1.5"	11.1"	19.9"	24.2"	23.1"	15.5"	0.0
VELOCITY (fps)	3200	2937	2689	2455	2232	2021	1822
ENERGY (ft.-lbs.)	1978	1666	1397	1164	962	789	642
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-9.9"	-23.0"	-43.2"	-71.8"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.1"	-18.0"	-36.8"	-64.2"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.1"	0.0	-9.8"	-26.7"	-52.0"
TRAJ: 400 yds. zero	-1.5"	5.8"	9.0"	7.4"	0.0	-14.4"	-37.3"
TRAJ: 500 yds. zero	-1.5"	8.6"	14.7"	16.0"	11.5"	0.0	-20.0"
TRAJ: 600 yds. zero	-1.5"	12.0"	21.4"	26.0"	24.9"	16.7"	0.0
VELOCITY (fps)	3100	2843	2600	2370	2152	1945	1752
ENERGY (ft.-lbs.)	1856	1561	1306	1085	894	731	593
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.8"	-24.9"	-46.6"	-77.5"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.6"	-19.3"	-39.6"	-69.1"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.4"	0.0	-10.6"	-28.7"	-56.0"
TRAJ: 400 yds. zero	-1.5"	6.2"	9.7"	7.9"	0.0	-15.5"	-40.1"
TRAJ: 500 yds. zero	-1.5"	9.3"	15.8"	17.2"	12.4"	0.0	-21.6"
TRAJ: 600 yds. zero	-1.5"	12.9"	23.0"	28.0"	26.8"	18.0"	0.0
VELOCITY (fps)	3000	2749	2511	2286	2072	1870	1682
ENERGY (ft.-lbs.)	1738	1459	1218	1009	829	675	546
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.7"	-27.1"	-50.5"	-83.9"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.1"	-20.8"	-42.7"	-74.6"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.7"	0.0	-11.4"	-30.9"	-60.4"
TRAJ: 400 yds. zero	-1.5"	6.8"	10.4"	8.5"	0.0	-16.7"	-43.3"
TRAJ: 500 yds. zero	-1.5"	10.1"	17.1"	18.5"	13.3"	0.0	-23.3"
TRAJ: 600 yds. zero	-1.5"	14.0"	24.9"	30.2"	28.9"	19.4"	0.0
VELOCITY (fps)	2900	2654	2421	2200	1991	1795	1612
ENERGY (ft.-lbs.)	1624	1361	1132	935	766	622	502
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.8"	-29.4"	-54.8"	-91.1"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.7"	-22.5"	-46.2"	-80.7"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.1"	0.0	-12.3"	-33.4"	-65.4"
TRAJ: 400 yds. zero	-1.5"	7.4"	11.3"	9.2"	0.0	-18.0"	-46.9"
TRAJ: 500 yds. zero	-1.5"	11.0"	18.5"	20.1"	14.4"	0.0	-25.3"
TRAJ: 600 yds. zero	-1.5"	15.2"	26.9"	32.7"	31.3"	21.1"	0.0
VELOCITY (fps)	2800	2560	2332	2115	1911	1720	1544
ENERGY (ft.-lbs.)	1514	1265	1050	864	705	571	460
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.1"	-32.1"	-59.7"	-99.1"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.3"	-24.4"	-50.1"	-87.6"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.5"	0.0	-13.3"	-36.2"	-71.0"
TRAJ: 400 yds. zero	-1.5"	8.0"	12.2"	10.0"	0.0	-19.6"	-51.0"
TRAJ: 500 yds. zero	-1.5"	11.9"	20.0"	21.7"	15.7"	0.0	-27.5"
TRAJ: 600 yds. zero	-1.5"	16.5"	29.2"	35.5"	34.0"	22.9"	0.0
VELOCITY (fps)	2700	2465	2242	2030	1831	1646	1477
ENERGY (ft.-lbs.)	1408	1173	971	796	648	523	421
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.4"	-35.1"	-65.1"	-108.1"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.1"	-26.6"	-54.5"	-95.4"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.0"	0.0	-14.5"	-39.4"	-77.3"
TRAJ: 400 yds. zero	-1.5"	8.8"	13.3"	10.9"	0.0	-21.3"	-55.5"
TRAJ: 500 yds. zero	-1.5"	13.0"	21.8"	23.7"	17.0"	0.0	-29.9"
TRAJ: 600 yds. zero	-1.5"	18.0"	31.8"	38.6"	37.0"	25.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2600	2370	2152	1945	1752	1573	1412
ENERGY (ft.-lbs.)	1306	1085	894	731	593	478	385
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-16.9"	-38.4"	-71.3"	-118.2"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-9.9"	-29.0"	-59.5"	-104.1"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.6"	0.0	-15.8"	-43.0"	-84.4"
TRAJ: 400 yds. zero	-1.5"	9.6"	14.5"	11.9"	0.0	-23.2"	-60.6"
TRAJ: 500 yds. zero	-1.5"	14.3"	23.8"	25.8"	18.6"	0.0	-32.7"
TRAJ: 600 yds. zero	-1.5"	19.7"	34.7"	42.2"	40.4"	27.3"	0.0
VELOCITY (fps)	2500	2275	2062	1861	1673	1502	1349
ENERGY (ft.-lbs.)	1207	1000	821	669	541	436	352
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-18.7"	-42.2"	-78.2"	-129.7"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.8"	-31.7"	-65.1"	-114.0"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.2"	0.0	-17.3"	-47.1"	-92.4"
TRAJ: 400 yds. zero	-1.5"	10.6"	15.9"	13.0"	0.0	-25.5"	-66.4"
TRAJ: 500 yds. zero	-1.5"	15.6"	26.0"	28.2"	20.4"	0.0	-35.9"
TRAJ: 600 yds. zero	-1.5"	21.6"	38.0"	46.2"	44.3"	29.9"	0.0
VELOCITY (fps)	2400	2180	1972	1777	1596	1432	1290
ENERGY (ft.-lbs.)	1113	918	751	610	492	396	321
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-20.6"	-46.5"	-86.1"	-142.7"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.9"	-34.8"	-71.5"	-125.2"
TRAJ: 300 yds. zero	-1.5"	6.9"	7.9"	0.0	-19.0"	-51.7"	-101.5"
TRAJ: 400 yds. zero	-1.5"	11.6"	17.4"	14.2"	0.0	-28.0"	-73.0"
TRAJ: 500 yds. zero	-1.5"	17.2"	28.6"	31.0"	22.4"	0.0	-39.4"
TRAJ: 600 yds. zero	-1.5"	23.8"	41.7"	50.7"	48.7"	32.9"	0.0
VELOCITY (fps)	2300	2085	1883	1694	1520	1366	1234
ENERGY (ft.-lbs.)	1022	840	685	554	446	360	294
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-22.9"	-51.4"	-95.1"	-157.5"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-13.1"	-38.4"	-78.8"	-137.9"
TRAJ: 300 yds. zero	-1.5"	7.6"	8.7"	0.0	-20.9"	-56.9"	-111.7"
TRAJ: 400 yds. zero	-1.5"	12.9"	19.2"	15.7"	0.0	-30.8"	-80.4"
TRAJ: 500 yds. zero	-1.5"	19.0"	31.5"	34.2"	24.6"	0.0	-43.4"
TRAJ: 600 yds. zero	-1.5"	26.3"	46.0"	55.9"	53.6"	36.2"	0.0
VELOCITY (fps)	2200	1991	1794	1612	1447	1302	1182
ENERGY (ft.-lbs.)	935	765	622	502	404	327	270
TRAJ: 100 yds. zero	-1.5"	0.0	-7.3"	-25.4"	-57.0"	-105.3"	-174.2"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-14.5"	-42.4"	-87.0"	-152.3"
TRAJ: 300 yds. zero	-1.5"	8.5"	9.7"	0.0	-23.1"	-62.9"	-123.3"
TRAJ: 400 yds. zero	-1.5"	14.3"	21.2"	17.3"	0.0	-34.0"	-88.7"
TRAJ: 500 yds. zero	-1.5"	21.1"	34.8"	37.7"	27.2"	0.0	-47.8"
TRAJ: 600 yds. zero	-1.5"	29.0"	50.8"	61.7"	59.1"	39.9"	0.0

6MM CALIBER (.243" Dia.) 100 GRAIN SPIRE POINT

SECTIONAL DENSITY: .242 BALLISTIC COEFFICIENT: .381

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3128	2873	2632	2403	2186	1980
ENERGY (ft.-lbs.)	2566	2172	1832	1538	1282	1061	870
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.3"	-19.6"	-37.0"	-61.6"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.2"	-15.5"	-31.8"	-55.4"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.5"	0.0	-8.5"	-23.1"	-44.9"
TRAJ: 400 yds. zero	-1.5"	4.9"	7.8"	6.4"	0.0	-12.4"	-32.1"
TRAJ: 500 yds. zero	-1.5"	7.4"	12.7"	13.8"	9.9"	0.0	-17.2"
TRAJ: 600 yds. zero	-1.5"	10.3"	18.5"	22.5"	21.4"	14.4"	0.0
VELOCITY (fps)	3300	3034	2784	2548	2323	2110	1909
ENERGY (ft.-lbs.)	2418	2044	1721	1441	1198	989	809
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.1"	-21.2"	-39.8"	-66.2"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.6"	-16.6"	-34.1"	-59.3"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.1"	-24.7"	-48.1"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.3"	6.8"	0.0	-13.3"	-34.4"
TRAJ: 500 yds. zero	-1.5"	8.0"	13.6"	14.8"	10.6"	0.0	-18.5"
TRAJ: 600 yds. zero	-1.5"	11.0"	19.8"	24.0"	22.9"	15.4"	0.0
VELOCITY (fps)	3200	2940	2696	2464	2243	2035	1838
ENERGY (ft.-lbs.)	2273	1920	1613	1348	1117	919	750
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-9.8"	-22.9"	-42.9"	-71.3"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.1"	-17.9"	-36.6"	-63.7"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.0"	0.0	-9.8"	-26.5"	-51.6"
TRAJ: 400 yds. zero	-1.5"	5.7"	8.9"	7.3"	0.0	-14.3"	-36.9"
TRAJ: 500 yds. zero	-1.5"	8.6"	14.6"	15.9"	11.4"	0.0	-19.8"
TRAJ: 600 yds. zero	-1.5"	11.9"	21.2"	25.8"	24.6"	16.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2846	2607	2379	2163	1959	1767
ENERGY (ft.-lbs.)	2133	1799	1508	1257	1039	852	693
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.7"	-24.8"	-46.3"	-77.0"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.5"	-19.2"	-39.3"	-68.6"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.4"	0.0	-10.5"	-28.5"	-55.5"
TRAJ: 400 yds. zero	-1.5"	6.2"	9.6"	7.9"	0.0	-15.3"	-39.8"
TRAJ: 500 yds. zero	-1.5"	9.3"	15.7"	17.1"	12.3"	0.0	-21.4"
TRAJ: 600 yds. zero	-1.5"	12.8"	22.9"	27.8"	26.5"	17.8"	0.0
VELOCITY (fps)	3000	2752	2517	2294	2083	1883	1696
ENERGY (ft.-lbs.)	1998	1681	1407	1168	963	787	639
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.7"	-26.9"	-50.2"	-83.3"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.0"	-20.7"	-42.4"	-74.0"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.7"	0.0	-11.3"	-30.7"	-59.9"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.4"	8.5"	0.0	-16.5"	-42.9"
TRAJ: 500 yds. zero	-1.5"	10.0"	17.0"	18.4"	13.2"	0.0	-23.1"
TRAJ: 600 yds. zero	-1.5"	13.9"	24.7"	29.9"	28.6"	19.2"	0.0
VELOCITY (fps)	2900	2657	2427	2209	2002	1807	1626
ENERGY (ft.-lbs.)	1867	1568	1308	1083	890	725	587
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.8"	-29.3"	-54.5"	-90.4"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.6"	-22.4"	-45.9"	-80.1"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.1"	0.0	-12.2"	-33.2"	-64.8"
TRAJ: 400 yds. zero	-1.5"	7.3"	11.2"	9.2"	0.0	-17.9"	-46.5"
TRAJ: 500 yds. zero	-1.5"	10.9"	18.4"	19.9"	14.3"	0.0	-25.0"
TRAJ: 600 yds. zero	-1.5"	15.1"	26.7"	32.4"	31.0"	20.8"	0.0
VELOCITY (fps)	2800	2563	2337	2124	1921	1732	1557
ENERGY (ft.-lbs.)	1741	1458	1213	1001	820	666	538
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.0"	-31.9"	-59.3"	-98.3"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.3"	-24.3"	-49.8"	-86.9"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.5"	0.0	-13.3"	-36.0"	-70.3"
TRAJ: 400 yds. zero	-1.5"	8.0"	12.1"	9.9"	0.0	-19.4"	-50.4"
TRAJ: 500 yds. zero	-1.5"	11.9"	19.9"	21.6"	15.5"	0.0	-27.2"
TRAJ: 600 yds. zero	-1.5"	16.4"	29.0"	35.2"	33.6"	22.6"	0.0
VELOCITY (fps)	2700	2468	2247	2038	1841	1657	1490
ENERGY (ft.-lbs.)	1618	1352	1121	922	753	610	493
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.3"	-34.9"	-64.7"	-107.2"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.0"	-26.4"	-54.1"	-94.6"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.0"	0.0	-14.4"	-39.1"	-76.5"
TRAJ: 400 yds. zero	-1.5"	8.7"	13.2"	10.8"	0.0	-21.1"	-54.9"
TRAJ: 500 yds. zero	-1.5"	12.9"	21.7"	23.5"	16.9"	0.0	-29.6"
TRAJ: 600 yds. zero	-1.5"	17.9"	31.5"	38.3"	36.6"	24.7"	0.0
VELOCITY (fps)	2600	2373	2157	1953	1761	1584	1424
ENERGY (ft.-lbs.)	1501	1250	1033	847	689	557	450
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-16.9"	-38.2"	-70.8"	-117.3"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.8"	-28.8"	-59.1"	-103.2"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.6"	0.0	-15.7"	-42.7"	-83.6"
TRAJ: 400 yds. zero	-1.5"	9.6"	14.4"	11.8"	0.0	-23.0"	-60.0"
TRAJ: 500 yds. zero	-1.5"	14.2"	23.6"	25.6"	18.4"	0.0	-32.4"
TRAJ: 600 yds. zero	-1.5"	19.6"	34.4"	41.8"	40.0"	27.0"	0.0
VELOCITY (fps)	2500	2278	2067	1868	1683	1512	1361
ENERGY (ft.-lbs.)	1388	1152	949	775	629	508	411
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-18.6"	-42.0"	-77.7"	-128.7"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.8"	-31.5"	-64.6"	-113.1"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.2"	0.0	-17.2"	-46.7"	-91.5"
TRAJ: 400 yds. zero	-1.5"	10.5"	15.8"	12.9"	0.0	-25.2"	-65.7"
TRAJ: 500 yds. zero	-1.5"	15.5"	25.9"	28.0"	20.2"	0.0	-35.5"
TRAJ: 600 yds. zero	-1.5"	21.5"	37.7"	45.8"	43.8"	29.6"	0.0
VELOCITY (fps)	2400	2183	1977	1784	1605	1443	1300
ENERGY (ft.-lbs.)	1279	1058	868	707	572	462	375
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-20.6"	-46.3"	-85.5"	-141.6"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.8"	-34.6"	-71.0"	-124.2"
TRAJ: 300 yds. zero	-1.5"	6.9"	7.9"	0.0	-18.9"	-51.3"	-100.5"
TRAJ: 400 yds. zero	-1.5"	11.6"	17.3"	14.1"	0.0	-27.7"	-72.2"
TRAJ: 500 yds. zero	-1.5"	17.1"	28.4"	30.8"	22.2"	0.0	-39.0"
TRAJ: 600 yds. zero	-1.5"	23.6"	41.4"	50.3"	48.2"	32.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2300	2088	1888	1701	1529	1375	1243
ENERGY (ft.-lbs.)	1174	968	791	642	519	420	343
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-22.8"	-51.1"	-94.4"	-156.3"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.0"	-38.1"	-78.2"	-136.8"
TRAJ: 300 yds. zero	-1.5"	7.6"	8.7"	0.0	-20.8"	-56.5"	-110.7"
TRAJ: 400 yds. zero	-1.5"	12.8"	19.1"	15.6"	0.0	-30.5"	-79.5"
TRAJ: 500 yds. zero	-1.5"	18.9"	31.3"	33.9"	24.4"	0.0	-42.9"
TRAJ: 600 yds. zero	-1.5"	26.0"	45.6"	55.3"	53.0"	35.8"	0.0
VELOCITY (fps)	2200	1993	1799	1619	1455	1311	1191
ENERGY (ft.-lbs.)	1075	882	719	582	470	381	315
TRAJ: 100 yds. zero	-1.5"	0.0	-7.3"	-25.3"	-56.7"	-104.6"	-172.8"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-14.4"	-42.2"	-86.4"	-151.0"
TRAJ: 300 yds. zero	-1.5"	8.4"	9.6"	0.0	-22.9"	-62.4"	-122.2"
TRAJ: 400 yds. zero	-1.5"	14.2"	21.1"	17.2"	0.0	-33.7"	-87.8"
TRAJ: 500 yds. zero	-1.5"	20.9"	34.6"	37.4"	27.0"	0.0	-47.3"
TRAJ: 600 yds. zero	-1.5"	28.8"	50.3"	61.1"	58.5"	39.4"	0.0
VELOCITY (fps)	2100	1899	1711	1538	1383	1250	1143
ENERGY (ft.-lbs.)	979	801	650	525	425	347	290
TRAJ: 100 yds. zero	-1.5"	0.0	-8.2"	-28.3"	-63.1"	-116.2"	-191.6"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-16.0"	-46.8"	-95.8"	-167.1"
TRAJ: 300 yds. zero	-1.5"	9.4"	10.7"	0.0	-25.4"	-69.1"	-135.1"
TRAJ: 400 yds. zero	-1.5"	15.8"	23.4"	19.1"	0.0	-37.3"	-97.0"
TRAJ: 500 yds. zero	-1.5"	23.2"	38.3"	41.5"	29.9"	0.0	-52.2"
TRAJ: 600 yds. zero	-1.5"	31.9"	55.7"	67.6"	64.7"	43.5"	0.0
VELOCITY (fps)	2000	1805	1624	1460	1315	1194	1100
ENERGY (ft.-lbs.)	888	724	586	473	384	317	269
TRAJ: 100 yds. zero	-1.5"	0.0	-9.2"	-31.6"	-70.4"	-129.4"	-212.8"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-17.8"	-52.0"	-106.4"	-185.2"
TRAJ: 300 yds. zero	-1.5"	10.5"	11.9"	0.0	-28.3"	-76.7"	-149.6"
TRAJ: 400 yds. zero	-1.5"	17.6"	26.0"	21.2"	0.0	-41.4"	-107.2"
TRAJ: 500 yds. zero	-1.5"	25.9"	42.6"	46.0"	33.1"	0.0	-57.5"
TRAJ: 600 yds. zero	-1.5"	35.5"	61.7"	74.8"	71.5"	47.9"	0.0

6MM CALIBER (.243" Dia.) 100 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .242 BALLISTIC COEFFICIENT: .405

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3144	2902	2674	2456	2249	2052
ENERGY (ft.-lbs.)	2566	2194	1870	1587	1339	1123	935
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.2"	-19.2"	-36.0"	-59.7"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.1"	-15.2"	-30.9"	-53.6"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.4"	0.0	-8.3"	-22.4"	-43.3"
TRAJ: 400 yds. zero	-1.5"	4.8"	7.6"	6.2"	0.0	-12.0"	-30.9"
TRAJ: 500 yds. zero	-1.5"	7.2"	12.4"	13.4"	9.6"	0.0	-16.5"
TRAJ: 600 yds. zero	-1.5"	9.9"	17.9"	21.7"	20.6"	13.7"	0.0
VELOCITY (fps)	3300	3050	2813	2589	2376	2172	1979
ENERGY (ft.-lbs.)	2418	2065	1757	1488	1253	1048	870
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-8.9"	-20.7"	-38.7"	-64.1"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.5"	-16.2"	-33.1"	-57.4"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.7"	0.0	-8.9"	-23.9"	-46.3"
TRAJ: 400 yds. zero	-1.5"	5.2"	8.1"	6.7"	0.0	-12.8"	-33.0"
TRAJ: 500 yds. zero	-1.5"	7.7"	13.2"	14.3"	10.3"	0.0	-17.6"
TRAJ: 600 yds. zero	-1.5"	10.7"	19.1"	23.2"	22.0"	14.7"	0.0
VELOCITY (fps)	3200	2955	2724	2504	2295	2095	1906
ENERGY (ft.-lbs.)	2273	1939	1647	1392	1169	975	807
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-9.7"	-22.4"	-41.7"	-69.0"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.9"	-17.4"	-35.5"	-61.6"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.0"	0.0	-9.5"	-25.6"	-49.7"
TRAJ: 400 yds. zero	-1.5"	5.6"	8.7"	7.1"	0.0	-13.7"	-35.4"
TRAJ: 500 yds. zero	-1.5"	8.3"	14.2"	15.4"	11.0"	0.0	-18.9"
TRAJ: 600 yds. zero	-1.5"	11.5"	20.5"	24.8"	23.6"	15.8"	0.0
VELOCITY (fps)	3100	2861	2634	2419	2213	2018	1833
ENERGY (ft.-lbs.)	2133	1817	1541	1299	1088	904	746
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.5"	-24.3"	-45.1"	-74.5"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.4"	-18.7"	-38.2"	-66.2"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.3"	0.0	-10.2"	-27.5"	-53.4"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.4"	7.7"	0.0	-14.8"	-38.1"
TRAJ: 500 yds. zero	-1.5"	9.0"	15.3"	16.5"	11.8"	0.0	-20.4"
TRAJ: 600 yds. zero	-1.5"	12.4"	22.1"	26.7"	25.4"	17.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2766	2544	2333	2132	1941	1761
ENERGY (ft.-lbs.)	1998	1699	1437	1208	1009	836	688
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.5"	-26.3"	-48.8"	-80.6"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.9"	-20.2"	-41.2"	-71.4"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.6"	0.0	-11.0"	-29.7"	-57.6"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.1"	8.3"	0.0	-15.9"	-41.1"
TRAJ: 500 yds. zero	-1.5"	9.8"	16.5"	17.8"	12.7"	0.0	-22.0"
TRAJ: 600 yds. zero	-1.5"	13.4"	23.8"	28.8"	27.4"	18.3"	0.0
VELOCITY (fps)	2900	2671	2454	2247	2050	1863	1689
ENERGY (ft.-lbs.)	1867	1584	1337	1121	933	771	633
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.5"	-28.6"	-53.0"	-87.4"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.5"	-21.8"	-44.5"	-77.2"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.0"	0.0	-11.9"	-32.1"	-62.3"
TRAJ: 400 yds. zero	-1.5"	7.2"	10.9"	8.9"	0.0	-17.2"	-44.5"
TRAJ: 500 yds. zero	-1.5"	10.6"	17.8"	19.2"	13.8"	0.0	-23.8"
TRAJ: 600 yds. zero	-1.5"	14.6"	25.7"	31.1"	29.6"	19.8"	0.0
VELOCITY (fps)	2800	2576	2364	2161	1968	1787	1617
ENERGY (ft.-lbs.)	1741	1474	1240	1037	860	709	581
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-13.7"	-31.2"	-57.6"	-95.0"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.1"	-23.7"	-48.3"	-83.8"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.4"	0.0	-12.9"	-34.7"	-67.6"
TRAJ: 400 yds. zero	-1.5"	7.8"	11.8"	9.7"	0.0	-18.7"	-48.3"
TRAJ: 500 yds. zero	-1.5"	11.5"	19.3"	20.8"	14.9"	0.0	-25.9"
TRAJ: 600 yds. zero	-1.5"	15.8"	27.9"	33.8"	32.2"	21.6"	0.0
VELOCITY (fps)	2700	2481	2273	2075	1887	1710	1547
ENERGY (ft.-lbs.)	1618	1367	1147	955	790	649	532
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.1"	-34.1"	-62.9"	-103.6"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-8.8"	-25.7"	-52.5"	-91.1"
TRAJ: 300 yds. zero	-1.5"	5.0"	5.9"	0.0	-14.0"	-37.8"	-73.5"
TRAJ: 400 yds. zero	-1.5"	8.5"	12.9"	10.5"	0.0	-20.3"	-52.5"
TRAJ: 500 yds. zero	-1.5"	12.6"	21.0"	22.7"	16.2"	0.0	-28.2"
TRAJ: 600 yds. zero	-1.5"	17.3"	30.4"	36.7"	35.0"	23.5"	0.0
VELOCITY (fps)	2600	2386	2182	1988	1806	1635	1479
ENERGY (ft.-lbs.)	1501	1264	1057	878	724	593	485
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-16.6"	-37.3"	-68.8"	-113.3"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.6"	-28.1"	-57.2"	-99.5"
TRAJ: 300 yds. zero	-1.5"	5.5"	6.4"	0.0	-15.2"	-41.2"	-80.2"
TRAJ: 400 yds. zero	-1.5"	9.3"	14.0"	11.4"	0.0	-22.1"	-57.3"
TRAJ: 500 yds. zero	-1.5"	13.8"	22.9"	24.7"	17.7"	0.0	-30.8"
TRAJ: 600 yds. zero	-1.5"	18.9"	33.2"	40.1"	38.2"	25.6"	0.0
VELOCITY (fps)	2500	2291	2092	1903	1725	1561	1412
ENERGY (ft.-lbs.)	1388	1165	971	804	661	541	443
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-18.2"	-41.0"	-75.5"	-124.3"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.5"	-30.7"	-62.6"	-108.9"
TRAJ: 300 yds. zero	-1.5"	6.1"	7.0"	0.0	-16.7"	-45.0"	-87.8"
TRAJ: 400 yds. zero	-1.5"	10.2"	15.4"	12.5"	0.0	-24.2"	-62.8"
TRAJ: 500 yds. zero	-1.5"	15.1"	25.0"	27.0"	19.4"	0.0	-33.7"
TRAJ: 600 yds. zero	-1.5"	20.7"	36.3"	43.9"	41.9"	28.1"	0.0
VELOCITY (fps)	2400	2196	2001	1817	1646	1489	1348
ENERGY (ft.-lbs.)	1279	1070	889	733	601	492	404
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-20.2"	-45.2"	-83.0"	-136.7"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.6"	-33.7"	-68.7"	-119.5"
TRAJ: 300 yds. zero	-1.5"	6.7"	7.7"	0.0	-18.3"	-49.4"	-96.4"
TRAJ: 400 yds. zero	-1.5"	11.3"	16.9"	13.7"	0.0	-26.6"	-69.0"
TRAJ: 500 yds. zero	-1.5"	16.6"	27.5"	29.7"	21.3"	0.0	-37.0"
TRAJ: 600 yds. zero	-1.5"	22.8"	39.8"	48.2"	46.0"	30.9"	0.0
VELOCITY (fps)	2300	2100	1911	1733	1568	1419	1287
ENERGY (ft.-lbs.)	1174	979	811	667	546	447	368
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-22.4"	-49.9"	-91.7"	-150.8"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-12.7"	-37.1"	-75.7"	-131.6"
TRAJ: 300 yds. zero	-1.5"	7.5"	8.5"	0.0	-20.1"	-54.4"	-106.1"
TRAJ: 400 yds. zero	-1.5"	12.5"	18.6"	15.1"	0.0	-29.3"	-76.0"
TRAJ: 500 yds. zero	-1.5"	18.3"	30.3"	32.7"	23.4"	0.0	-40.8"
TRAJ: 600 yds. zero	-1.5"	25.1"	43.9"	53.1"	50.6"	34.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2200	2005	1821	1650	1492	1351	1230
ENERGY (ft.-lbs.)	1075	893	737	604	494	405	336
TRAJ: 100 yds. zero	-1.5"	0.0	-7.2"	-24.8"	-55.3"	-101.5"	-166.9"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-14.1"	-41.0"	-83.6"	-145.4"
TRAJ: 300 yds. zero	-1.5"	8.3"	9.4"	0.0	-22.2"	-60.1"	-117.2"
TRAJ: 400 yds. zero	-1.5"	13.8"	20.5"	16.7"	0.0	-32.3"	-83.8"
TRAJ: 500 yds. zero	-1.5"	20.3"	33.4"	36.1"	25.9"	0.0	-45.0"
TRAJ: 600 yds. zero	-1.5"	27.8"	48.5"	58.6"	55.9"	37.5"	0.0
VELOCITY (fps)	2100	1911	1733	1568	1418	1287	1178
ENERGY (ft.-lbs.)	979	810	667	546	447	368	308
TRAJ: 100 yds. zero	-1.5"	0.0	-8.0"	-27.7"	-61.6"	-112.8"	-185.1"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-15.6"	-45.5"	-92.7"	-160.9"
TRAJ: 300 yds. zero	-1.5"	9.2"	10.4"	0.0	-24.6"	-66.6"	-129.7"
TRAJ: 400 yds. zero	-1.5"	15.4"	22.7"	18.5"	0.0	-35.8"	-92.7"
TRAJ: 500 yds. zero	-1.5"	22.6"	37.1"	40.0"	28.7"	0.0	-49.7"
TRAJ: 600 yds. zero	-1.5"	30.8"	53.6"	64.8"	61.8"	41.4"	0.0
VELOCITY (fps)	2000	1816	1645	1488	1348	1227	1131
ENERGY (ft.-lbs.)	888	733	601	491	403	334	284
TRAJ: 100 yds. zero	-1.5"	0.0	-9.1"	-31.0"	-68.7"	-125.7"	-205.8"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-17.4"	-50.6"	-103.0"	-178.6"
TRAJ: 300 yds. zero	-1.5"	10.3"	11.6"	0.0	-27.4"	-74.0"	-143.7"
TRAJ: 400 yds. zero	-1.5"	17.2"	25.3"	20.5"	0.0	-39.8"	-102.7"
TRAJ: 500 yds. zero	-1.5"	25.1"	41.2"	44.4"	31.8"	0.0	-55.0"
TRAJ: 600 yds. zero	-1.5"	34.3"	59.5"	71.9"	68.4"	45.8"	0.0

6MM CALIBER (.243" Dia.) 100 GRAIN ROUND NOSE
SECTIONAL DENSITY: .242 BALLISTIC COEFFICIENT: .230

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	2959	2559	2192	1857	1559	1310
ENERGY (ft.-lbs.)	2566	1944	1454	1067	766	540	381
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-10.3"	-25.5"	-50.8"	-90.7"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.6"	-20.5"	-44.6"	-83.2"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.4"	0.0	-11.7"	-33.6"	-70.0"
TRAJ: 400 yds. zero	-1.5"	6.4"	10.2"	8.8"	0.0	-19.0"	-52.4"
TRAJ: 500 yds. zero	-1.5"	10.2"	17.8"	20.1"	15.2"	0.0	-29.7"
TRAJ: 600 yds. zero	-1.5"	15.1"	27.7"	35.0"	35.0"	24.7"	0.0
VELOCITY (fps)	3300	2869	2476	2117	1789	1501	1264
ENERGY (ft.-lbs.)	2418	1827	1362	995	711	500	355
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-11.2"	-27.5"	-54.8"	-97.8"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.1"	-22.0"	-47.9"	-89.5"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.7"	0.0	-12.6"	-36.1"	-75.4"
TRAJ: 400 yds. zero	-1.5"	6.9"	11.0"	9.4"	0.0	-20.4"	-56.5"
TRAJ: 500 yds. zero	-1.5"	11.0"	19.2"	21.7"	16.3"	0.0	-32.0"
TRAJ: 600 yds. zero	-1.5"	16.3"	29.8"	37.7"	37.7"	26.7"	0.0
VELOCITY (fps)	3200	2778	2394	2041	1721	1443	1220
ENERGY (ft.-lbs.)	2273	1714	1272	925	658	462	330
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-12.2"	-29.8"	-59.3"	-105.7"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.6"	-23.7"	-51.7"	-96.6"
TRAJ: 300 yds. zero	-1.5"	4.1"	5.1"	0.0	-13.5"	-38.9"	-81.3"
TRAJ: 400 yds. zero	-1.5"	7.4"	11.9"	10.1"	0.0	-22.0"	-61.0"
TRAJ: 500 yds. zero	-1.5"	11.9"	20.7"	23.4"	17.6"	0.0	-34.6"
TRAJ: 600 yds. zero	-1.5"	17.6"	32.2"	40.7"	40.7"	28.8"	0.0
VELOCITY (fps)	3100	2687	2310	1965	1654	1386	1179
ENERGY (ft.-lbs.)	2133	1603	1185	857	607	427	308
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-13.3"	-32.3"	-64.2"	-114.5"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.2"	-25.6"	-55.8"	-104.5"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.5"	0.0	-14.6"	-42.1"	-88.0"
TRAJ: 400 yds. zero	-1.5"	8.1"	12.8"	11.0"	0.0	-23.8"	-66.1"
TRAJ: 500 yds. zero	-1.5"	12.8"	22.3"	25.3"	19.1"	0.0	-37.5"
TRAJ: 600 yds. zero	-1.5"	19.1"	34.8"	44.0"	44.0"	31.2"	0.0
VELOCITY (fps)	3000	2596	2227	1889	1587	1332	1141
ENERGY (ft.-lbs.)	1998	1497	1101	792	559	394	289
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-14.5"	-35.1"	-69.7"	-124.3"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.9"	-27.7"	-60.5"	-113.2"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.9"	0.0	-15.8"	-45.6"	-95.4"
TRAJ: 400 yds. zero	-1.5"	8.8"	13.9"	11.9"	0.0	-25.9"	-71.6"
TRAJ: 500 yds. zero	-1.5"	13.9"	24.2"	27.4"	20.7"	0.0	-40.6"
TRAJ: 600 yds. zero	-1.5"	20.7"	37.7"	47.7"	47.8"	33.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2505	2143	1813	1521	1280	1106
ENERGY (ft.-lbs.)	1867	1393	1019	730	514	363	272
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-15.8"	-38.3"	-75.9"	-135.1"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.7"	-30.1"	-65.7"	-122.9"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.5"	0.0	-17.2"	-49.6"	-103.5"
TRAJ: 400 yds. zero	-1.5"	9.6"	15.0"	12.9"	0.0	-28.1"	-77.8"
TRAJ: 500 yds. zero	-1.5"	15.2"	26.3"	29.8"	22.5"	0.0	-44.0"
TRAJ: 600 yds. zero	-1.5"	22.5"	41.0"	51.8"	51.8"	36.7"	0.0
VELOCITY (fps)	2800	2414	2059	1737	1457	1230	1074
ENERGY (ft.-lbs.)	1741	1293	941	670	471	336	256
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-17.3"	-41.8"	-82.9"	-147.2"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.5"	-32.8"	-71.6"	-133.6"
TRAJ: 300 yds. zero	-1.5"	5.8"	7.0"	0.0	-18.7"	-54.0"	-112.5"
TRAJ: 400 yds. zero	-1.5"	10.4"	16.4"	14.0"	0.0	-30.7"	-84.5"
TRAJ: 500 yds. zero	-1.5"	16.6"	28.6"	32.4"	24.5"	0.0	-47.7"
TRAJ: 600 yds. zero	-1.5"	24.5"	44.5"	56.3"	56.3"	39.7"	0.0
VELOCITY (fps)	2700	2322	1975	1663	1394	1184	1046
ENERGY (ft.-lbs.)	1618	1197	866	614	431	311	243
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-19.0"	-45.8"	-90.7"	-160.4"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-11.5"	-35.8"	-78.2"	-145.4"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.7"	0.0	-20.4"	-59.0"	-122.3"
TRAJ: 400 yds. zero	-1.5"	11.4"	17.9"	15.3"	0.0	-33.4"	-91.7"
TRAJ: 500 yds. zero	-1.5"	18.1"	31.3"	35.4"	26.8"	0.0	-51.6"
TRAJ: 600 yds. zero	-1.5"	26.7"	48.5"	61.2"	61.1"	43.0"	0.0
VELOCITY (fps)	2600	2230	1892	1589	1334	1142	1020
ENERGY (ft.-lbs.)	1501	1104	794	561	395	290	231
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-20.9"	-50.3"	-99.4"	-174.9"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-12.6"	-39.2"	-85.5"	-158.2"
TRAJ: 300 yds. zero	-1.5"	7.0"	8.4"	0.0	-22.3"	-64.5"	-133.0"
TRAJ: 400 yds. zero	-1.5"	12.6"	19.6"	16.8"	0.0	-36.6"	-99.5"
TRAJ: 500 yds. zero	-1.5"	19.9"	34.2"	38.7"	29.2"	0.0	-55.6"
TRAJ: 600 yds. zero	-1.5"	29.1"	52.7"	66.5"	66.3"	46.3"	0.0
VELOCITY (fps)	2500	2138	1809	1517	1277	1104	996
ENERGY (ft.-lbs.)	1388	1015	726	511	362	271	220
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-23.1"	-55.3"	-109.1"	-190.8"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-13.8"	-43.0"	-93.7"	-172.2"
TRAJ: 300 yds. zero	-1.5"	7.7"	9.2"	0.0	-24.5"	-70.6"	-144.5"
TRAJ: 400 yds. zero	-1.5"	13.8"	21.5"	18.4"	0.0	-39.9"	-107.8"
TRAJ: 500 yds. zero	-1.5"	21.8"	37.5"	42.4"	32.0"	0.0	-59.8"
TRAJ: 600 yds. zero	-1.5"	31.8"	57.4"	72.3"	71.8"	49.9"	0.0
VELOCITY (fps)	2400	2047	1726	1447	1223	1070	973
ENERGY (ft.-lbs.)	1279	930	662	465	332	254	210
TRAJ: 100 yds. zero	-1.5"	0.0	-6.9"	-25.6"	-61.1"	-119.9"	-208.0"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-15.2"	-47.3"	-102.7"	-187.4"
TRAJ: 300 yds. zero	-1.5"	8.5"	10.2"	0.0	-27.0"	-77.3"	-156.9"
TRAJ: 400 yds. zero	-1.5"	15.3"	23.6"	20.2"	0.0	-43.6"	-116.4"
TRAJ: 500 yds. zero	-1.5"	24.0"	41.1"	46.4"	34.9"	0.0	-64.1"
TRAJ: 600 yds. zero	-1.5"	34.7"	62.5"	78.4"	77.6"	53.5"	0.0
VELOCITY (fps)	2300	1955	1645	1380	1174	1039	952
ENERGY (ft.-lbs.)	1174	849	601	422	306	240	201
TRAJ: 100 yds. zero	-1.5"	0.0	-7.7"	-28.4"	-67.5"	-131.9"	-226.8"
TRAJ: 200 yds. zero	-1.5"	3.8"	0.0	-16.8"	-52.1"	-112.6"	-203.7"
TRAJ: 300 yds. zero	-1.5"	9.5"	11.2"	0.0	-29.7"	-84.6"	-170.0"
TRAJ: 400 yds. zero	-1.5"	16.9"	26.1"	22.3"	0.0	-47.4"	-125.5"
TRAJ: 500 yds. zero	-1.5"	26.4"	45.1"	50.7"	38.0"	0.0	-68.6"
TRAJ: 600 yds. zero	-1.5"	37.8"	67.9"	85.0"	83.7"	57.1"	0.0
VELOCITY (fps)	2200	1864	1566	1315	1129	1012	932
ENERGY (ft.-lbs.)	1075	772	544	384	283	227	193
TRAJ: 100 yds. zero	-1.5"	0.0	-8.6"	-31.6"	-74.8"	-145.0"	-247.1"
TRAJ: 200 yds. zero	-1.5"	4.3"	0.0	-18.6"	-57.6"	-123.5"	-221.3"
TRAJ: 300 yds. zero	-1.5"	10.5"	12.4"	0.0	-32.7"	-92.4"	-184.0"
TRAJ: 400 yds. zero	-1.5"	18.7"	28.8"	24.5"	0.0	-51.5"	-134.9"
TRAJ: 500 yds. zero	-1.5"	29.0"	49.4"	55.4"	41.2"	0.0	-73.1"
TRAJ: 600 yds. zero	-1.5"	41.2"	73.8"	92.0"	89.9"	60.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2100	1774	1488	1254	1089	986	913
ENERGY (ft.-lbs.)	979	699	491	349	264	216	185
TRAJ: 100 yds. zero	-1.5"	0.0	-9.7"	-35.2"	-83.0"	-159.4"	-269.0"
TRAJ: 200 yds. zero	-1.5"	4.8"	0.0	-20.7"	-63.6"	-135.2"	-240.0"
TRAJ: 300 yds. zero	-1.5"	11.7"	13.8"	0.0	-36.0"	-100.7"	-198.6"
TRAJ: 400 yds. zero	-1.5"	20.7"	31.8"	27.0"	0.0	-55.7"	-144.6"
TRAJ: 500 yds. zero	-1.5"	31.9"	54.1"	60.4"	44.5"	0.0	-77.8"
TRAJ: 600 yds. zero	-1.5"	44.8"	80.0"	99.3"	96.4"	64.8"	0.0
VELOCITY (fps)	2000	1685	1412	1197	1054	962	895
ENERGY (ft.-lbs.)	888	630	443	318	247	206	178
TRAJ: 100 yds. zero	-1.5"	0.0	-10.9"	-39.3"	-92.1"	-175.0"	-292.7"
TRAJ: 200 yds. zero	-1.5"	5.4"	0.0	-23.0"	-70.3"	-147.8"	-260.1"
TRAJ: 300 yds. zero	-1.5"	13.1"	15.4"	0.0	-39.6"	-109.4"	-214.0"
TRAJ: 400 yds. zero	-1.5"	23.0"	35.2"	29.7"	0.0	-59.9"	-154.6"
TRAJ: 500 yds. zero	-1.5"	35.0"	59.1"	65.7"	47.9"	0.0	-82.7"
TRAJ: 600 yds. zero	-1.5"	48.8"	86.7"	107.0"	103.1"	68.9"	0.0

25 CALIBER (.257" Dia.) 60 GRAIN FLAT POINT
SECTIONAL DENSITY: .130 BALLISTIC COEFFICIENT: .101

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	3800	3254	2771	2336	1943	1595	1307
ENERGY (ft.-lbs.)	1923	1410	1023	727	503	339	228
TRAJ: 50 yds. zero	-1.5"	0.0	0.7"	0.2"	-1.9"	-6.3"	-14.2"
TRAJ: 100 yds. zero	-1.5"	-0.3"	0.0	-0.8"	-3.2"	-8.0"	-16.2"
TRAJ: 150 yds. zero	-1.5"	-0.1"	0.5"	0.0	-2.1"	-6.6"	-14.6"
TRAJ: 200 yds. zero	-1.5"	0.5"	1.6"	1.6"	0.0	-3.9"	-11.4"
TRAJ: 250 yds. zero	-1.5"	1.3"	3.2"	4.0"	3.2"	0.0	-6.6"
TRAJ: 300 yds. zero	-1.5"	2.4"	5.4"	7.3"	7.6"	5.5"	0.0
VELOCITY (fps)	3700	3166	2692	2265	1879	1540	1265
ENERGY (ft.-lbs.)	1824	1335	966	683	470	316	213
TRAJ: 50 yds. zero	-1.5"	0.0	0.6"	0.0	-2.3"	-7.0"	-15.6"
TRAJ: 100 yds. zero	-1.5"	-0.3"	0.0	-0.9"	-3.5"	-8.6"	-17.4"
TRAJ: 150 yds. zero	-1.5"	-0.0"	0.6"	0.0	-2.3"	-7.1"	-15.7"
TRAJ: 200 yds. zero	-1.5"	0.6"	1.8"	1.7"	0.0	-4.2"	-12.2"
TRAJ: 250 yds. zero	-1.5"	1.4"	3.4"	4.3"	3.4"	0.0	-7.1"
TRAJ: 300 yds. zero	-1.5"	2.6"	5.8"	7.8"	8.1"	5.9"	0.0
VELOCITY (fps)	3600	3078	2614	2193	1815	1486	1225
ENERGY (ft.-lbs.)	1726	1262	910	641	439	294	200
TRAJ: 50 yds. zero	-1.5"	0.0	0.6"	-0.1"	-2.7"	-7.9"	-17.1"
TRAJ: 100 yds. zero	-1.5"	-0.3"	0.0	-1.0"	-3.8"	-9.3"	-18.8"
TRAJ: 150 yds. zero	-1.5"	0.0	0.7"	0.0	-2.5"	-7.7"	-16.8"
TRAJ: 200 yds. zero	-1.5"	0.7"	1.9"	1.9"	0.0	-4.5"	-13.1"
TRAJ: 250 yds. zero	-1.5"	1.6"	3.7"	4.6"	3.6"	0.0	-7.7"
TRAJ: 300 yds. zero	-1.5"	2.9"	6.3"	8.4"	8.7"	6.4"	0.0
VELOCITY (fps)	3500	2990	2534	2121	1751	1433	1187
ENERGY (ft.-lbs.)	1632	1191	855	599	408	273	188
TRAJ: 50 yds. zero	-1.5"	0.0	0.5"	-0.3"	-3.1"	-8.8"	-18.8"
TRAJ: 100 yds. zero	-1.5"	-0.3"	0.0	-1.1"	-4.2"	-10.1"	-20.4"
TRAJ: 150 yds. zero	-1.5"	0.1"	0.7"	0.0	-2.7"	-8.3"	-18.2"
TRAJ: 200 yds. zero	-1.5"	0.8"	2.1"	2.0"	0.0	-4.9"	-14.1"
TRAJ: 250 yds. zero	-1.5"	1.8"	4.0"	5.0"	3.9"	0.0	-8.2"
TRAJ: 300 yds. zero	-1.5"	3.1"	6.8"	9.1"	9.4"	6.9"	0.0
VELOCITY (fps)	3400	2901	2454	2049	1687	1380	1152
ENERGY (ft.-lbs.)	1540	1121	802	559	379	254	177
TRAJ: 50 yds. zero	-1.5"	0.0	0.5"	-0.5"	-3.6"	-9.8"	-20.7"
TRAJ: 100 yds. zero	-1.5"	-0.2"	0.0	-1.2"	-4.6"	-11.0"	-22.1"
TRAJ: 150 yds. zero	-1.5"	0.2"	0.8"	0.0	-2.9"	-8.9"	-19.6"
TRAJ: 200 yds. zero	-1.5"	0.9"	2.3"	2.2"	0.0	-5.3"	-15.2"
TRAJ: 250 yds. zero	-1.5"	2.0"	4.4"	5.4"	4.2"	0.0	-8.9"
TRAJ: 300 yds. zero	-1.5"	3.4"	7.4"	9.8"	10.2"	7.4"	0.0
VELOCITY (fps)	3300	2812	2374	1976	1624	1330	1119
ENERGY (ft.-lbs.)	1451	1053	750	520	351	236	167
TRAJ: 50 yds. zero	-1.5"	0.0	0.4"	-0.8"	-4.2"	-11.0"	-22.8"
TRAJ: 100 yds. zero	-1.5"	-0.2"	0.0	-1.4"	-5.0"	-12.0"	-23.9"
TRAJ: 150 yds. zero	-1.5"	0.3"	0.9"	0.0	-3.2"	-9.7"	-21.2"
TRAJ: 200 yds. zero	-1.5"	1.1"	2.5"	2.4"	0.0	-5.7"	-16.5"
TRAJ: 250 yds. zero	-1.5"	2.2"	4.8"	5.8"	4.6"	0.0	-9.6"
TRAJ: 300 yds. zero	-1.5"	3.8"	8.0"	10.6"	11.0"	8.0"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	3200	2723	2293	1903	1561	1281	1089
ENERGY (ft.-lbs.)	1364	988	700	483	325	219	158
TRAJ: 50 yds. zero	-1.5"	0.0	0.3"	-1.0"	-4.8"	-12.3"	-25.0"
TRAJ: 100 yds. zero	-1.5"	-0.2"	0.0	-1.5"	-5.5"	-13.0"	-26.0"
TRAJ: 150 yds. zero	-1.5"	0.3"	1.0"	0.0	-3.4"	-10.5"	-23.0"
TRAJ: 200 yds. zero	-1.5"	1.2"	2.7"	2.6"	0.0	-6.2"	-17.8"
TRAJ: 250 yds. zero	-1.5"	2.5"	5.2"	6.3"	5.0"	0.0	-10.3"
TRAJ: 300 yds. zero	-1.5"	4.2"	8.7"	11.5"	11.9"	8.6"	0.0
VELOCITY (fps)	3100	2633	2211	1831	1499	1235	1061
ENERGY (ft.-lbs.)	1280	924	651	446	299	203	150
TRAJ: 50 yds. zero	-1.5"	0.0	0.2"	-1.3"	-5.5"	-13.7"	-27.6"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.7"	-6.0"	-14.3"	-28.3"
TRAJ: 150 yds. zero	-1.5"	0.4"	1.1"	0.0	-3.8"	-11.5"	-24.9"
TRAJ: 200 yds. zero	-1.5"	1.4"	3.0"	2.8"	0.0	-6.8"	-19.3"
TRAJ: 250 yds. zero	-1.5"	2.7"	5.7"	6.9"	5.4"	0.0	-11.1"
TRAJ: 300 yds. zero	-1.5"	4.6"	9.4"	12.4"	12.8"	9.3"	0.0
VELOCITY (fps)	3000	2543	2130	1758	1439	1191	1036
ENERGY (ft.-lbs.)	1199	862	604	412	276	189	143
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.7"	-6.3"	-15.2"	-30.3"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.9"	-6.6"	-15.6"	-30.7"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.2"	0.0	-4.1"	-12.5"	-27.0"
TRAJ: 200 yds. zero	-1.5"	1.6"	3.3"	3.1"	0.0	-7.4"	-20.8"
TRAJ: 250 yds. zero	-1.5"	3.0"	6.2"	7.5"	5.9"	0.0	-12.0"
TRAJ: 300 yds. zero	-1.5"	5.1"	10.2"	13.5"	13.9"	10.0"	0.0
VELOCITY (fps)	2900	2453	2048	1686	1380	1151	1012
ENERGY (ft.-lbs.)	1120	802	559	379	254	177	136
TRAJ: 50 yds. zero	-1.5"	0.0	0.0	-2.0"	-7.2"	-17.0"	-33.3"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-2.1"	-7.3"	-17.1"	-33.4"
TRAJ: 150 yds. zero	-1.5"	0.7"	1.4"	0.0	-4.5"	-13.6"	-29.3"
TRAJ: 200 yds. zero	-1.5"	1.8"	3.6"	3.4"	0.0	-8.0"	-22.5"
TRAJ: 250 yds. zero	-1.5"	3.4"	6.8"	8.2"	6.4"	0.0	-12.9"
TRAJ: 300 yds. zero	-1.5"	5.6"	11.1"	14.6"	15.0"	10.8"	0.0
VELOCITY (fps)	2800	2363	1966	1615	1323	1115	990
ENERGY (ft.-lbs.)	1044	743	515	347	233	165	131
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.4"	-8.2"	-19.0"	-36.6"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-2.3"	-8.0"	-18.8"	-36.4"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.5"	0.0	-4.9"	-14.9"	-31.7"
TRAJ: 200 yds. zero	-1.5"	2.0"	4.0"	3.7"	0.0	-8.7"	-24.3"
TRAJ: 250 yds. zero	-1.5"	3.8"	7.5"	8.9"	7.0"	0.0	-13.8"
TRAJ: 300 yds. zero	-1.5"	6.1"	12.1"	15.9"	16.2"	11.5"	0.0
VELOCITY (fps)	2700	2272	1885	1545	1269	1081	970
ENERGY (ft.-lbs.)	971	688	473	318	215	156	125
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.9"	-9.3"	-21.1"	-40.1"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.6"	-8.9"	-20.6"	-39.5"
TRAJ: 150 yds. zero	-1.5"	1.0"	1.7"	0.0	-5.4"	-16.3"	-34.3"
TRAJ: 200 yds. zero	-1.5"	2.3"	4.4"	4.1"	0.0	-9.5"	-26.2"
TRAJ: 250 yds. zero	-1.5"	4.2"	8.2"	9.8"	7.6"	0.0	-14.8"
TRAJ: 300 yds. zero	-1.5"	6.7"	13.2"	17.2"	17.5"	12.3"	0.0
VELOCITY (fps)	2600	2181	1804	1477	1219	1051	950
ENERGY (ft.-lbs.)	900	634	433	290	198	147	120
TRAJ: 50 yds. zero	-1.5"	0.0	-0.4"	-3.4"	-10.5"	-23.5"	-44.0"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.9"	-9.8"	-22.6"	-42.9"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.9"	0.0	-6.0"	-17.8"	-37.1"
TRAJ: 200 yds. zero	-1.5"	2.6"	4.9"	4.5"	0.0	-10.4"	-28.2"
TRAJ: 250 yds. zero	-1.5"	4.7"	9.1"	10.7"	8.3"	0.0	-15.7"
TRAJ: 300 yds. zero	-1.5"	7.3"	14.3"	18.6"	18.8"	13.1"	0.0
VELOCITY (fps)	2500	2091	1724	1410	1172	1024	932
ENERGY (ft.-lbs.)	833	582	396	265	183	140	116
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-4.0"	-11.9"	-26.2"	-48.1"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-3.2"	-10.9"	-24.9"	-46.6"
TRAJ: 150 yds. zero	-1.5"	1.3"	2.2"	0.0	-6.6"	-19.5"	-40.1"
TRAJ: 200 yds. zero	-1.5"	3.0"	5.4"	4.9"	0.0	-11.2"	-30.2"
TRAJ: 250 yds. zero	-1.5"	5.2"	9.9"	11.7"	9.0"	0.0	-16.7"
TRAJ: 300 yds. zero	-1.5"	8.0"	15.5"	20.1"	20.2"	14.0"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2400	2000	1644	1346	1129	999	914
ENERGY (ft.-lbs.)	767	533	360	241	170	133	111
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.7"	-13.5"	-29.0"	-52.6"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.6"	-12.1"	-27.3"	-50.5"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.4"	0.0	-7.3"	-21.2"	-43.3"
TRAJ: 200 yds. zero	-1.5"	3.4"	6.0"	5.5"	0.0	-12.2"	-32.4"
TRAJ: 250 yds. zero	-1.5"	5.8"	10.9"	12.7"	9.7"	0.0	-17.8"
TRAJ: 300 yds. zero	-1.5"	8.8"	16.8"	21.6"	21.6"	14.8"	0.0
VELOCITY (fps)	2300	1910	1567	1286	1091	976	897
ENERGY (ft.-lbs.)	705	486	327	220	159	127	107
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-5.4"	-15.2"	-32.2"	-57.4"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-4.1"	-13.4"	-29.9"	-54.7"
TRAJ: 150 yds. zero	-1.5"	1.8"	2.7"	0.0	-8.0"	-23.1"	-46.6"
TRAJ: 200 yds. zero	-1.5"	3.8"	6.7"	6.0"	0.0	-13.1"	-34.6"
TRAJ: 250 yds. zero	-1.5"	6.4"	12.0"	13.9"	10.5"	0.0	-18.8"
TRAJ: 300 yds. zero	-1.5"	9.6"	18.2"	23.3"	23.0"	15.7"	0.0
VELOCITY (fps)	2200	1821	1491	1229	1057	954	880
ENERGY (ft.-lbs.)	645	442	296	201	149	121	103
TRAJ: 50 yds. zero	-1.5"	0.0	-1.2"	-6.3"	-17.2"	-35.6"	-62.6"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-4.5"	-14.9"	-32.7"	-59.2"
TRAJ: 150 yds. zero	-1.5"	2.1"	3.0"	0.0	-8.8"	-25.1"	-50.1"
TRAJ: 200 yds. zero	-1.5"	4.3"	7.4"	6.6"	0.0	-14.1"	-36.8"
TRAJ: 250 yds. zero	-1.5"	7.1"	13.1"	15.1"	11.3"	0.0	-19.9"
TRAJ: 300 yds. zero	-1.5"	10.4"	19.7"	25.0"	24.6"	16.6"	0.0
VELOCITY (fps)	2100	1732	1417	1176	1027	934	864
ENERGY (ft.-lbs.)	587	400	267	184	140	116	99
TRAJ: 50 yds. zero	-1.5"	0.0	-1.4"	-7.3"	-19.3"	-39.2"	-68.2"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-5.1"	-16.5"	-35.7"	-63.9"
TRAJ: 150 yds. zero	-1.5"	2.4"	3.4"	0.0	-9.7"	-27.1"	-53.7"
TRAJ: 200 yds. zero	-1.5"	4.8"	8.2"	7.2"	0.0	-15.1"	-39.2"
TRAJ: 250 yds. zero	-1.5"	7.8"	14.3"	16.3"	12.1"	0.0	-21.1"
TRAJ: 300 yds. zero	-1.5"	11.4"	21.3"	26.8"	26.1"	17.6"	0.0
VELOCITY (fps)	2000	1644	1346	1129	999	914	848
ENERGY (ft.-lbs.)	533	360	241	170	133	111	96
TRAJ: 50 yds. zero	-1.5"	0.0	-1.8"	-8.4"	-21.7"	-43.2"	-74.2"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-5.7"	-18.2"	-38.8"	-68.9"
TRAJ: 150 yds. zero	-1.5"	2.8"	3.8"	0.0	-10.5"	-29.3"	-57.5"
TRAJ: 200 yds. zero	-1.5"	5.4"	9.1"	7.9"	0.0	-16.1"	-41.7"
TRAJ: 250 yds. zero	-1.5"	8.6"	15.5"	17.6"	12.9"	0.0	-22.3"
TRAJ: 300 yds. zero	-1.5"	12.4"	23.0"	28.7"	27.8"	18.6"	0.0
VELOCITY (fps)	1900	1558	1279	1087	973	895	832
ENERGY (ft.-lbs.)	481	323	218	157	126	107	92
TRAJ: 50 yds. zero	-1.5"	0.0	-2.1"	-9.6"	-24.3"	-47.5"	-80.6"
TRAJ: 100 yds. zero	-1.5"	1.1"	0.0	-6.4"	-20.0"	-42.2"	-74.2"
TRAJ: 150 yds. zero	-1.5"	3.2"	4.3"	0.0	-11.5"	-31.5"	-61.4"
TRAJ: 200 yds. zero	-1.5"	6.1"	10.0"	8.6"	0.0	-17.2"	-44.2"
TRAJ: 250 yds. zero	-1.5"	9.5"	16.9"	18.9"	13.7"	0.0	-23.6"
TRAJ: 300 yds. zero	-1.5"	13.4"	24.7"	30.7"	29.5"	19.7"	0.0
VELOCITY (fps)	1800	1473	1216	1050	949	876	816
ENERGY (ft.-lbs.)	432	289	197	147	120	102	89
TRAJ: 50 yds. zero	-1.5"	0.0	-2.6"	-11.0"	-27.1"	-52.1"	-87.5"
TRAJ: 100 yds. zero	-1.5"	1.3"	0.0	-7.2"	-22.0"	-45.8"	-79.9"
TRAJ: 150 yds. zero	-1.5"	3.7"	4.8"	0.0	-12.4"	-33.8"	-65.6"
TRAJ: 200 yds. zero	-1.5"	6.8"	11.0"	9.3"	0.0	-18.3"	-47.0"
TRAJ: 250 yds. zero	-1.5"	10.4"	18.3"	20.3"	14.7"	0.0	-25.0"
TRAJ: 300 yds. zero	-1.5"	14.6"	26.6"	32.8"	31.3"	20.8"	0.0
VELOCITY (fps)	1700	1391	1159	1017	926	858	800
ENERGY (ft.-lbs.)	385	258	179	138	114	98	85
TRAJ: 50 yds. zero	-1.5"	0.0	-3.0"	-12.5"	-30.1"	-57.1"	-95.0"
TRAJ: 100 yds. zero	-1.5"	1.5"	0.0	-8.0"	-24.0"	-49.5"	-85.9"
TRAJ: 150 yds. zero	-1.5"	4.2"	5.3"	0.0	-13.4"	-36.3"	-70.0"
TRAJ: 200 yds. zero	-1.5"	7.5"	12.0"	10.1"	0.0	-19.5"	-49.9"
TRAJ: 250 yds. zero	-1.5"	11.4"	19.8"	21.8"	15.6"	0.0	-26.4"
TRAJ: 300 yds. zero	-1.5"	15.8"	28.6"	35.0"	33.2"	22.0"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1600	1311	1107	986	904	839	784
ENERGY (ft.-lbs.)	341	229	163	129	109	94	82
TRAJ: 50 yds. zero	-1.5"	0.0	-3.6"	-14.2"	-33.3"	-62.5"	-103.0"
TRAJ: 100 yds. zero	-1.5"	1.8"	0.0	-8.8"	-26.2"	-53.5"	-92.3"
TRAJ: 150 yds. zero	-1.5"	4.7"	5.9"	0.0	-14.4"	-38.8"	-74.7"
TRAJ: 200 yds. zero	-1.5"	8.3"	13.1"	10.8"	0.0	-20.8"	-53.0"
TRAJ: 250 yds. zero	-1.5"	12.5"	21.4"	23.3"	16.6"	0.0	-28.1"
TRAJ: 300 yds. zero	-1.5"	17.2"	30.8"	37.3"	35.3"	23.4"	0.0
VELOCITY (fps)	1500	1236	1061	957	882	821	768
ENERGY (ft.-lbs.)	300	203	150	122	104	90	79
TRAJ: 50 yds. zero	-1.5"	0.0	-4.2"	-16.0"	-36.9"	-68.3"	-111.7"
TRAJ: 100 yds. zero	-1.5"	2.1"	0.0	-9.7"	-28.5"	-57.8"	-99.1"
TRAJ: 150 yds. zero	-1.5"	5.3"	6.5"	0.0	-15.6"	-41.6"	-79.8"
TRAJ: 200 yds. zero	-1.5"	9.2"	14.2"	11.7"	0.0	-22.2"	-56.4"
TRAJ: 250 yds. zero	-1.5"	13.7"	23.1"	25.0"	17.8"	0.0	-29.8"
TRAJ: 300 yds. zero	-1.5"	18.6"	33.0"	39.9"	37.6"	24.8"	0.0

25 CALIBER (.257" Dia.) 75 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .162 BALLISTIC COEFFICIENT: .257

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	4000	3544	3134	2760	2416	2097	1804
ENERGY (ft.-lbs.)	2664	2091	1635	1268	972	732	542
TRAJ: 100 yds. zero	-1.5"	0.0	-1.3"	-6.1"	-15.5"	-30.9"	-54.2"
TRAJ: 200 yds. zero	-1.5"	0.6"	0.0	-4.2"	-13.0"	-27.7"	-50.4"
TRAJ: 300 yds. zero	-1.5"	2.0"	2.8"	0.0	-7.4"	-20.7"	-42.0"
TRAJ: 400 yds. zero	-1.5"	3.9"	6.5"	5.5"	0.0	-11.5"	-30.9"
TRAJ: 500 yds. zero	-1.5"	6.2"	11.1"	12.4"	9.2"	0.0	-17.1"
TRAJ: 600 yds. zero	-1.5"	9.0"	16.8"	21.0"	20.6"	14.3"	0.0
VELOCITY (fps)	3900	3454	3053	2685	2347	2033	1746
ENERGY (ft.-lbs.)	2533	1987	1552	1201	917	688	508
TRAJ: 100 yds. zero	-1.5"	0.0	-1.4"	-6.6"	-16.6"	-32.9"	-57.7"
TRAJ: 200 yds. zero	-1.5"	0.7"	0.0	-4.5"	-13.8"	-29.4"	-53.5"
TRAJ: 300 yds. zero	-1.5"	2.2"	3.0"	0.0	-7.8"	-21.9"	-44.5"
TRAJ: 400 yds. zero	-1.5"	4.2"	6.9"	5.9"	0.0	-12.2"	-32.8"
TRAJ: 500 yds. zero	-1.5"	6.6"	11.8"	13.2"	9.8"	0.0	-18.2"
TRAJ: 600 yds. zero	-1.5"	9.6"	17.8"	22.3"	21.9"	15.2"	0.0
VELOCITY (fps)	3800	3365	2971	2610	2277	1969	1688
ENERGY (ft.-lbs.)	2404	1885	1470	1135	863	645	474
TRAJ: 100 yds. zero	-1.5"	0.0	-1.6"	-7.1"	-17.8"	-35.2"	-61.6"
TRAJ: 200 yds. zero	-1.5"	0.8"	0.0	-4.7"	-14.6"	-31.2"	-56.8"
TRAJ: 300 yds. zero	-1.5"	2.4"	3.2"	0.0	-8.3"	-23.3"	-47.3"
TRAJ: 400 yds. zero	-1.5"	4.4"	7.3"	6.2"	0.0	-12.9"	-34.9"
TRAJ: 500 yds. zero	-1.5"	7.0"	12.5"	14.0"	10.4"	0.0	-19.4"
TRAJ: 600 yds. zero	-1.5"	10.3"	18.9"	23.7"	23.3"	16.2"	0.0
VELOCITY (fps)	3700	3275	2889	2535	2207	1904	1630
ENERGY (ft.-lbs.)	2279	1785	1390	1070	811	604	443
TRAJ: 100 yds. zero	-1.5"	0.0	-1.8"	-7.7"	-19.1"	-37.6"	-65.8"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.1"	-15.6"	-33.2"	-60.6"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.4"	0.0	-8.8"	-24.8"	-50.4"
TRAJ: 400 yds. zero	-1.5"	4.8"	7.8"	6.6"	0.0	-13.8"	-37.2"
TRAJ: 500 yds. zero	-1.5"	7.5"	13.3"	14.9"	11.0"	0.0	-20.7"
TRAJ: 600 yds. zero	-1.5"	11.0"	20.2"	25.2"	24.8"	17.2"	0.0
VELOCITY (fps)	3600	3184	2806	2458	2136	1840	1573
ENERGY (ft.-lbs.)	2158	1688	1311	1006	760	564	412
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.3"	-20.5"	-40.3"	-70.5"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.4"	-16.6"	-35.4"	-64.6"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.6"	0.0	-9.4"	-26.4"	-53.8"
TRAJ: 400 yds. zero	-1.5"	5.1"	8.3"	7.0"	0.0	-14.7"	-39.8"
TRAJ: 500 yds. zero	-1.5"	8.1"	14.2"	15.9"	11.8"	0.0	-22.1"
TRAJ: 600 yds. zero	-1.5"	11.7"	21.5"	26.9"	26.5"	18.4"	0.0
VELOCITY (fps)	3500	3094	2723	2382	2065	1775	1517
ENERGY (ft.-lbs.)	2040	1594	1235	945	710	525	383
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-9.0"	-22.0"	-43.3"	-75.6"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.8"	-17.7"	-37.9"	-69.2"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.9"	0.0	-10.0"	-28.2"	-57.6"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.9"	7.5"	0.0	-15.7"	-42.6"
TRAJ: 500 yds. zero	-1.5"	8.7"	15.2"	16.9"	12.6"	0.0	-23.7"
TRAJ: 600 yds. zero	-1.5"	12.6"	23.1"	28.8"	28.4"	19.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3003	2640	2304	1994	1711	1461
ENERGY (ft.-lbs.)	1925	1502	1160	884	662	487	355
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.8"	-23.7"	-46.5"	-81.3"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.2"	-19.0"	-40.6"	-74.2"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.1"	0.0	-10.7"	-30.2"	-61.8"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.5"	8.0"	0.0	-16.8"	-45.7"
TRAJ: 500 yds. zero	-1.5"	9.3"	16.2"	18.1"	13.5"	0.0	-25.5"
TRAJ: 600 yds. zero	-1.5"	13.6"	24.7"	30.9"	30.5"	21.2"	0.0
VELOCITY (fps)	3300	2912	2556	2227	1923	1647	1406
ENERGY (ft.-lbs.)	1813	1412	1088	826	615	451	329
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.6"	-25.6"	-50.1"	-87.6"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.7"	-20.4"	-43.6"	-79.8"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.4"	0.0	-11.5"	-32.5"	-66.5"
TRAJ: 400 yds. zero	-1.5"	6.4"	10.2"	8.6"	0.0	-18.1"	-49.2"
TRAJ: 500 yds. zero	-1.5"	10.0"	17.4"	19.5"	14.5"	0.0	-27.5"
TRAJ: 600 yds. zero	-1.5"	14.6"	26.6"	33.2"	32.8"	22.9"	0.0
VELOCITY (fps)	3200	2821	2472	2149	1851	1583	1353
ENERGY (ft.-lbs.)	1705	1325	1017	769	570	417	305
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.5"	-27.7"	-54.2"	-94.7"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.2"	-21.9"	-46.9"	-86.0"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.8"	0.0	-12.4"	-35.0"	-71.6"
TRAJ: 400 yds. zero	-1.5"	6.9"	11.0"	9.3"	0.0	-19.5"	-53.1"
TRAJ: 500 yds. zero	-1.5"	10.8"	18.8"	21.0"	15.6"	0.0	-29.7"
TRAJ: 600 yds. zero	-1.5"	15.8"	28.7"	35.8"	35.4"	24.7"	0.0
VELOCITY (fps)	3100	2729	2387	2070	1780	1520	1302
ENERGY (ft.-lbs.)	1600	1240	949	714	527	385	282
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.5"	-30.0"	-58.6"	-102.5"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.7"	-23.7"	-50.7"	-92.9"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.2"	0.0	-13.3"	-37.8"	-77.4"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.8"	10.0"	0.0	-21.1"	-57.4"
TRAJ: 500 yds. zero	-1.5"	11.7"	20.3"	22.7"	16.9"	0.0	-32.1"
TRAJ: 600 yds. zero	-1.5"	17.1"	31.0"	38.7"	38.3"	26.8"	0.0
VELOCITY (fps)	3000	2637	2302	1992	1709	1459	1253
ENERGY (ft.-lbs.)	1499	1158	882	660	486	354	261
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.7"	-32.6"	-63.7"	-111.2"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.4"	-25.6"	-54.8"	-100.6"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.6"	0.0	-14.4"	-40.9"	-83.9"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.8"	10.8"	0.0	-22.9"	-62.3"
TRAJ: 500 yds. zero	-1.5"	12.7"	21.9"	24.5"	18.3"	0.0	-34.8"
TRAJ: 600 yds. zero	-1.5"	18.5"	33.5"	42.0"	41.5"	29.0"	0.0
VELOCITY (fps)	2900	2545	2216	1913	1638	1399	1207
ENERGY (ft.-lbs.)	1400	1078	818	609	447	326	242
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.9"	-35.5"	-69.3"	-121.0"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.1"	-27.7"	-59.5"	-109.3"
TRAJ: 300 yds. zero	-1.5"	5.0"	6.1"	0.0	-15.6"	-44.4"	-91.1"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.9"	11.7"	0.0	-24.8"	-67.7"
TRAJ: 500 yds. zero	-1.5"	13.9"	23.8"	26.6"	19.9"	0.0	-37.9"
TRAJ: 600 yds. zero	-1.5"	20.2"	36.4"	45.6"	45.1"	31.6"	0.0
VELOCITY (fps)	2800	2453	2131	1835	1569	1341	1164
ENERGY (ft.-lbs.)	1305	1002	756	561	410	300	226
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-16.4"	-38.8"	-75.6"	-131.9"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.9"	-30.2"	-64.8"	-118.9"
TRAJ: 300 yds. zero	-1.5"	5.5"	6.6"	0.0	-17.0"	-48.3"	-99.2"
TRAJ: 400 yds. zero	-1.5"	9.7"	15.1"	12.8"	0.0	-27.1"	-73.7"
TRAJ: 500 yds. zero	-1.5"	15.1"	25.9"	29.0"	21.6"	0.0	-41.2"
TRAJ: 600 yds. zero	-1.5"	22.0"	39.6"	49.6"	49.1"	34.4"	0.0
VELOCITY (fps)	2700	2360	2045	1757	1501	1286	1125
ENERGY (ft.-lbs.)	1214	927	697	514	375	275	211
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-17.9"	-42.5"	-82.6"	-144.1"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.8"	-32.9"	-70.7"	-129.7"
TRAJ: 300 yds. zero	-1.5"	6.0"	7.2"	0.0	-18.6"	-52.7"	-108.2"
TRAJ: 400 yds. zero	-1.5"	10.6"	16.5"	13.9"	0.0	-29.5"	-80.3"
TRAJ: 500 yds. zero	-1.5"	16.5"	28.3"	31.6"	23.6"	0.0	-44.9"
TRAJ: 600 yds. zero	-1.5"	24.0"	43.2"	54.1"	53.6"	37.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2600	2267	1960	1680	1435	1234	1090
ENERGY (ft.-lbs.)	1126	856	640	470	343	253	198
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.7"	-46.6"	-90.6"	-157.6"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.8"	-36.0"	-77.3"	-141.7"
TRAJ: 300 yds. zero	-1.5"	6.6"	7.9"	0.0	-20.3"	-57.7"	-118.1"
TRAJ: 400 yds. zero	-1.5"	11.7"	18.0"	15.2"	0.0	-32.3"	-87.6"
TRAJ: 500 yds. zero	-1.5"	18.1"	30.9"	34.6"	25.9"	0.0	-48.9"
TRAJ: 600 yds. zero	-1.5"	26.3"	47.2"	59.0"	58.4"	40.7"	0.0
VELOCITY (fps)	2500	2175	1875	1604	1371	1185	1058
ENERGY (ft.-lbs.)	1041	788	585	429	313	234	186
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-21.8"	-51.3"	-99.6"	-172.6"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-12.9"	-39.5"	-84.8"	-154.9"
TRAJ: 300 yds. zero	-1.5"	7.3"	8.6"	0.0	-22.3"	-63.3"	-129.0"
TRAJ: 400 yds. zero	-1.5"	12.8"	19.8"	16.7"	0.0	-35.4"	-95.6"
TRAJ: 500 yds. zero	-1.5"	19.9"	33.9"	38.0"	28.3"	0.0	-53.1"
TRAJ: 600 yds. zero	-1.5"	28.8"	51.6"	64.5"	63.7"	44.3"	0.0

25 CALIBER (.257" Dia.) 87 GRAIN SPIRE POINT
SECTIONAL DENSITY: .188 BALLISTIC COEFFICIENT: .322

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3800	3449	3125	2825	2544	2280	2032
ENERGY (ft.-lbs.)	2789	2297	1887	1542	1250	1004	797
TRAJ: 100 yds. zero	-1.5"	0.0	-1.4"	-6.4"	-15.8"	-30.5"	-51.9"
TRAJ: 200 yds. zero	-1.5"	0.7"	0.0	-4.3"	-12.9"	-26.9"	-47.7"
TRAJ: 300 yds. zero	-1.5"	2.1"	2.9"	0.0	-7.2"	-19.8"	-39.1"
TRAJ: 400 yds. zero	-1.5"	3.9"	6.5"	5.4"	0.0	-10.8"	-28.3"
TRAJ: 500 yds. zero	-1.5"	6.1"	10.8"	11.9"	8.6"	0.0	-15.3"
TRAJ: 600 yds. zero	-1.5"	8.7"	15.9"	19.5"	18.8"	12.8"	0.0
VELOCITY (fps)	3700	3357	3040	2746	2470	2210	1966
ENERGY (ft.-lbs.)	2644	2177	1785	1456	1178	943	747
TRAJ: 100 yds. zero	-1.5"	0.0	-1.6"	-7.0"	-16.9"	-32.6"	-55.4"
TRAJ: 200 yds. zero	-1.5"	0.8"	0.0	-4.6"	-13.8"	-28.6"	-50.7"
TRAJ: 300 yds. zero	-1.5"	2.3"	3.0"	0.0	-7.7"	-21.0"	-41.5"
TRAJ: 400 yds. zero	-1.5"	4.2"	6.9"	5.7"	0.0	-11.5"	-30.0"
TRAJ: 500 yds. zero	-1.5"	6.5"	11.5"	12.6"	9.2"	0.0	-16.3"
TRAJ: 600 yds. zero	-1.5"	9.2"	16.9"	20.8"	20.0"	13.6"	0.0
VELOCITY (fps)	3600	3265	2955	2666	2394	2139	1900
ENERGY (ft.-lbs.)	2503	2059	1687	1373	1107	884	697
TRAJ: 100 yds. zero	-1.5"	0.0	-1.8"	-7.5"	-18.2"	-34.9"	-59.3"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-4.9"	-14.7"	-30.5"	-54.0"
TRAJ: 300 yds. zero	-1.5"	2.5"	3.3"	0.0	-8.2"	-22.4"	-44.2"
TRAJ: 400 yds. zero	-1.5"	4.5"	7.3"	6.1"	0.0	-12.2"	-32.0"
TRAJ: 500 yds. zero	-1.5"	7.0"	12.2"	13.4"	9.8"	0.0	-17.4"
TRAJ: 600 yds. zero	-1.5"	9.9"	18.0"	22.1"	21.3"	14.5"	0.0
VELOCITY (fps)	3500	3173	2869	2585	2319	2068	1834
ENERGY (ft.-lbs.)	2366	1944	1590	1291	1039	826	650
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.2"	-19.6"	-37.5"	-63.5"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.2"	-15.6"	-32.6"	-57.6"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.5"	0.0	-8.7"	-23.9"	-47.2"
TRAJ: 400 yds. zero	-1.5"	4.9"	7.8"	6.5"	0.0	-13.0"	-34.2"
TRAJ: 500 yds. zero	-1.5"	7.5"	13.0"	14.3"	10.4"	0.0	-18.6"
TRAJ: 600 yds. zero	-1.5"	10.6"	19.2"	23.6"	22.8"	15.5"	0.0
VELOCITY (fps)	3400	3080	2783	2505	2243	1997	1768
ENERGY (ft.-lbs.)	2233	1833	1496	1212	971	770	604
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-8.8"	-21.1"	-40.2"	-68.2"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.6"	-16.7"	-34.8"	-61.6"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.7"	0.0	-9.3"	-25.5"	-50.5"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.4"	7.0"	0.0	-13.9"	-36.5"
TRAJ: 500 yds. zero	-1.5"	8.0"	13.9"	15.3"	11.1"	0.0	-19.9"
TRAJ: 600 yds. zero	-1.5"	11.4"	20.5"	25.2"	24.4"	16.6"	0.0
VELOCITY (fps)	3300	2988	2696	2423	2166	1925	1702
ENERGY (ft.-lbs.)	2103	1724	1404	1134	906	716	560
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.6"	-22.7"	-43.3"	-73.3"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.0"	-17.9"	-37.3"	-66.1"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.0"	0.0	-9.9"	-27.3"	-54.1"
TRAJ: 400 yds. zero	-1.5"	5.7"	9.0"	7.5"	0.0	-14.9"	-39.2"
TRAJ: 500 yds. zero	-1.5"	8.7"	14.9"	16.4"	11.9"	0.0	-21.3"
TRAJ: 600 yds. zero	-1.5"	12.2"	22.0"	27.1"	26.1"	17.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2895	2609	2341	2089	1854	1637
ENERGY (ft.-lbs.)	1978	1618	1315	1059	843	664	517
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.4"	-24.6"	-46.7"	-79.1"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.5"	-19.3"	-40.1"	-71.1"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.3"	0.0	-10.7"	-29.3"	-58.2"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.6"	8.0"	0.0	-16.0"	-42.2"
TRAJ: 500 yds. zero	-1.5"	9.3"	16.0"	17.6"	12.8"	0.0	-23.0"
TRAJ: 600 yds. zero	-1.5"	13.2"	23.7"	29.1"	28.1"	19.1"	0.0
VELOCITY (fps)	3100	2801	2522	2259	2012	1782	1572
ENERGY (ft.-lbs.)	1856	1516	1228	986	782	613	477
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.4"	-26.6"	-50.5"	-85.5"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.0"	-20.8"	-43.2"	-76.6"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.6"	0.0	-11.5"	-31.6"	-62.7"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.4"	8.6"	0.0	-17.2"	-45.5"
TRAJ: 500 yds. zero	-1.5"	10.1"	17.3"	18.9"	13.8"	0.0	-24.8"
TRAJ: 600 yds. zero	-1.5"	14.2"	25.5"	31.4"	30.3"	20.7"	0.0
VELOCITY (fps)	3000	2708	2434	2176	1935	1711	1508
ENERGY (ft.-lbs.)	1738	1416	1144	915	723	565	439
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.4"	-28.9"	-54.8"	-92.6"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.5"	-22.4"	-46.6"	-82.8"
TRAJ: 300 yds. zero	-1.5"	4.1"	5.0"	0.0	-12.4"	-34.1"	-67.8"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.2"	9.3"	0.0	-18.6"	-49.2"
TRAJ: 500 yds. zero	-1.5"	11.0"	18.7"	20.5"	14.9"	0.0	-26.9"
TRAJ: 600 yds. zero	-1.5"	15.4"	27.6"	33.9"	32.8"	22.4"	0.0
VELOCITY (fps)	2900	2614	2346	2094	1858	1641	1446
ENERGY (ft.-lbs.)	1624	1320	1063	847	667	520	404
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.6"	-31.5"	-59.5"	-100.6"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.1"	-24.3"	-50.5"	-89.8"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.4"	0.0	-13.4"	-36.9"	-73.5"
TRAJ: 400 yds. zero	-1.5"	7.9"	12.1"	10.0"	0.0	-20.2"	-53.4"
TRAJ: 500 yds. zero	-1.5"	11.9"	20.2"	22.2"	16.1"	0.0	-29.2"
TRAJ: 600 yds. zero	-1.5"	16.8"	29.9"	36.7"	35.6"	24.3"	0.0
VELOCITY (fps)	2800	2521	2258	2011	1781	1571	1386
ENERGY (ft.-lbs.)	1514	1227	985	781	613	477	371
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.8"	-34.3"	-64.8"	-109.6"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.8"	-26.3"	-54.8"	-97.6"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.9"	0.0	-14.5"	-40.1"	-79.9"
TRAJ: 400 yds. zero	-1.5"	8.6"	13.2"	10.9"	0.0	-21.9"	-58.1"
TRAJ: 500 yds. zero	-1.5"	13.0"	21.9"	24.1"	17.5"	0.0	-31.8"
TRAJ: 600 yds. zero	-1.5"	18.3"	32.5"	39.9"	38.7"	26.5"	0.0
VELOCITY (fps)	2700	2427	2169	1928	1705	1503	1327
ENERGY (ft.-lbs.)	1408	1137	909	718	562	436	340
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-16.3"	-37.5"	-70.8"	-119.6"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.6"	-28.7"	-59.7"	-106.4"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.4"	0.0	-15.8"	-43.7"	-87.1"
TRAJ: 400 yds. zero	-1.5"	9.4"	14.3"	11.9"	0.0	-23.9"	-63.3"
TRAJ: 500 yds. zero	-1.5"	14.2"	23.9"	26.2"	19.1"	0.0	-34.7"
TRAJ: 600 yds. zero	-1.5"	19.9"	35.5"	43.5"	42.2"	28.9"	0.0
VELOCITY (fps)	2600	2333	2081	1846	1630	1437	1272
ENERGY (ft.-lbs.)	1306	1051	836	658	513	399	312
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-17.9"	-41.1"	-77.6"	-131.0"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.5"	-31.3"	-65.3"	-116.2"
TRAJ: 300 yds. zero	-1.5"	6.0"	7.0"	0.0	-17.3"	-47.7"	-95.2"
TRAJ: 400 yds. zero	-1.5"	10.3"	15.7"	13.0"	0.0	-26.1"	-69.3"
TRAJ: 500 yds. zero	-1.5"	15.5"	26.1"	28.6"	20.9"	0.0	-37.9"
TRAJ: 600 yds. zero	-1.5"	21.8"	38.7"	47.6"	46.2"	31.6"	0.0
VELOCITY (fps)	2500	2238	1993	1764	1556	1373	1220
ENERGY (ft.-lbs.)	1207	968	767	601	468	364	287
TRAJ: 100 yds. zero	-1.5"	0.0	-5.5"	-19.7"	-45.2"	-85.2"	-143.8"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.5"	-34.3"	-71.5"	-127.4"
TRAJ: 300 yds. zero	-1.5"	6.6"	7.7"	0.0	-18.9"	-52.3"	-104.3"
TRAJ: 400 yds. zero	-1.5"	11.3"	17.1"	14.2"	0.0	-28.7"	-75.9"
TRAJ: 500 yds. zero	-1.5"	17.0"	28.6"	31.4"	22.9"	0.0	-41.5"
TRAJ: 600 yds. zero	-1.5"	24.0"	42.5"	52.2"	50.6"	34.6"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2400	2144	1905	1684	1484	1311	1172
ENERGY (ft.-lbs.)	1113	888	701	548	425	332	265
TRAJ: 100 yds. zero	-1.5"	0.0	-6.1"	-21.8"	-49.9"	-93.9"	-158.2"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-12.7"	-37.7"	-78.6"	-139.9"
TRAJ: 300 yds. zero	-1.5"	7.3"	8.5"	0.0	-20.8"	-57.5"	-114.6"
TRAJ: 400 yds. zero	-1.5"	12.5"	18.8"	15.6"	0.0	-31.5"	-83.4"
TRAJ: 500 yds. zero	-1.5"	18.8"	31.4"	34.5"	25.2"	0.0	-45.6"
TRAJ: 600 yds. zero	-1.5"	26.4"	46.6"	57.3"	55.6"	38.0"	0.0

25 CALIBER (.257" Dia.) 100 GRAIN SPIRE POINT
SECTIONAL DENSITY: .216 BALLISTIC COEFFICIENT: .357

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3600	3297	3014	2749	2499	2262	2039
ENERGY (ft.-lbs.)	2877	2413	2017	1678	1386	1136	923
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.2"	-17.4"	-33.1"	-55.6"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-4.7"	-14.0"	-28.8"	-50.5"
TRAJ: 300 yds. zero	-1.5"	2.4"	3.1"	0.0	-7.7"	-21.0"	-41.1"
TRAJ: 400 yds. zero	-1.5"	4.3"	7.0"	5.8"	0.0	-11.4"	-29.5"
TRAJ: 500 yds. zero	-1.5"	6.6"	11.5"	12.6"	9.1"	0.0	-15.9"
TRAJ: 600 yds. zero	-1.5"	9.3"	16.8"	20.6"	19.7"	13.2"	0.0
VELOCITY (fps)	3500	3204	2927	2667	2421	2189	1970
ENERGY (ft.-lbs.)	2720	2279	1902	1579	1302	1064	861
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-7.9"	-18.7"	-35.5"	-59.6"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.0"	-14.9"	-30.8"	-53.9"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.3"	0.0	-8.2"	-22.4"	-43.9"
TRAJ: 400 yds. zero	-1.5"	4.7"	7.5"	6.2"	0.0	-12.1"	-31.5"
TRAJ: 500 yds. zero	-1.5"	7.1"	12.3"	13.4"	9.7"	0.0	-17.0"
TRAJ: 600 yds. zero	-1.5"	9.9"	18.0"	21.9"	21.0"	14.1"	0.0
VELOCITY (fps)	3400	3111	2840	2585	2343	2115	1900
ENERGY (ft.-lbs.)	2566	2148	1790	1483	1219	993	802
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.5"	-20.2"	-38.1"	-63.9"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.4"	-16.0"	-32.9"	-57.6"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.6"	0.0	-8.8"	-23.9"	-46.9"
TRAJ: 400 yds. zero	-1.5"	5.0"	8.0"	6.6"	0.0	-12.9"	-33.7"
TRAJ: 500 yds. zero	-1.5"	7.6"	13.2"	14.4"	10.3"	0.0	-18.1"
TRAJ: 600 yds. zero	-1.5"	10.6"	19.2"	23.4"	22.4"	15.1"	0.0
VELOCITY (fps)	3300	3017	2752	2502	2265	2041	1831
ENERGY (ft.-lbs.)	2418	2021	1681	1389	1139	925	744
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.3"	-21.7"	-41.0"	-68.7"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.8"	-17.1"	-35.2"	-61.7"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.8"	0.0	-9.4"	-25.6"	-50.2"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.5"	7.1"	0.0	-13.8"	-36.1"
TRAJ: 500 yds. zero	-1.5"	8.2"	14.1"	15.4"	11.1"	0.0	-19.4"
TRAJ: 600 yds. zero	-1.5"	11.4"	20.6"	25.1"	24.0"	16.2"	0.0
VELOCITY (fps)	3200	2924	2664	2418	2186	1967	1762
ENERGY (ft.-lbs.)	2273	1898	1575	1298	1061	859	689
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.1"	-23.5"	-44.2"	-74.0"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.2"	-18.4"	-37.8"	-66.3"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.1"	0.0	-10.1"	-27.5"	-53.9"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.2"	7.6"	0.0	-14.9"	-38.7"
TRAJ: 500 yds. zero	-1.5"	8.8"	15.1"	16.5"	11.9"	0.0	-20.9"
TRAJ: 600 yds. zero	-1.5"	12.3"	22.1"	26.9"	25.8"	17.4"	0.0
VELOCITY (fps)	3100	2830	2575	2335	2107	1893	1693
ENERGY (ft.-lbs.)	2133	1778	1472	1210	986	795	636
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.0"	-25.5"	-47.8"	-79.9"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.7"	-19.8"	-40.7"	-71.4"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.5"	0.0	-10.8"	-29.6"	-58.0"
TRAJ: 400 yds. zero	-1.5"	6.4"	9.9"	8.1"	0.0	-16.0"	-41.7"
TRAJ: 500 yds. zero	-1.5"	9.6"	16.3"	17.7"	12.8"	0.0	-22.5"
TRAJ: 600 yds. zero	-1.5"	13.3"	23.8"	29.0"	27.8"	18.8"	0.0
VELOCITY (fps)	3000	2736	2486	2251	2028	1818	1625
ENERGY (ft.-lbs.)	1998	1662	1373	1124	913	734	586
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.0"	-27.6"	-51.8"	-86.5"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.2"	-21.3"	-43.9"	-77.1"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.7"	-31.9"	-62.6"
TRAJ: 400 yds. zero	-1.5"	6.9"	10.7"	8.8"	0.0	-17.3"	-45.1"
TRAJ: 500 yds. zero	-1.5"	10.4"	17.6"	19.1"	13.8"	0.0	-24.4"
TRAJ: 600 yds. zero	-1.5"	14.4"	25.7"	31.3"	30.1"	20.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2642	2397	2166	1948	1745	1558
ENERGY (ft.-lbs.)	1867	1549	1276	1042	843	676	539
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.1"	-30.1"	-56.2"	-93.9"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.8"	-23.1"	-47.5"	-83.4"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.2"	0.0	-12.6"	-34.5"	-67.8"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.5"	9.5"	0.0	-18.7"	-48.9"
TRAJ: 500 yds. zero	-1.5"	11.2"	19.0"	20.7"	14.9"	0.0	-26.4"
TRAJ: 600 yds. zero	-1.5"	15.7"	27.8"	33.9"	32.6"	22.0"	0.0
VELOCITY (fps)	2800	2547	2308	2082	1869	1671	1491
ENERGY (ft.-lbs.)	1741	1440	1183	962	776	620	494
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.3"	-32.8"	-61.2"	-102.2"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.5"	-25.0"	-51.6"	-90.6"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.7"	0.0	-13.7"	-37.4"	-73.6"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.5"	10.3"	0.0	-20.3"	-53.1"
TRAJ: 500 yds. zero	-1.5"	12.2"	20.6"	22.4"	16.2"	0.0	-28.8"
TRAJ: 600 yds. zero	-1.5"	17.0"	30.2"	36.8"	35.4"	24.0"	0.0
VELOCITY (fps)	2700	2453	2219	1997	1790	1599	1427
ENERGY (ft.-lbs.)	1618	1335	1093	886	712	568	452
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-15.7"	-35.8"	-66.8"	-111.6"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.2"	-27.2"	-56.1"	-98.7"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.2"	0.0	-14.9"	-40.7"	-80.2"
TRAJ: 400 yds. zero	-1.5"	9.0"	13.6"	11.2"	0.0	-22.1"	-57.9"
TRAJ: 500 yds. zero	-1.5"	13.4"	22.4"	24.4"	17.7"	0.0	-31.4"
TRAJ: 600 yds. zero	-1.5"	18.6"	32.9"	40.1"	38.6"	26.1"	0.0
VELOCITY (fps)	2600	2358	2129	1913	1712	1528	1365
ENERGY (ft.-lbs.)	1501	1234	1006	813	651	519	414
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-17.2"	-39.2"	-73.2"	-122.1"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.1"	-29.7"	-61.2"	-107.8"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.7"	0.0	-16.3"	-44.4"	-87.6"
TRAJ: 400 yds. zero	-1.5"	9.8"	14.9"	12.2"	0.0	-24.1"	-63.2"
TRAJ: 500 yds. zero	-1.5"	14.6"	24.5"	26.7"	19.3"	0.0	-34.3"
TRAJ: 600 yds. zero	-1.5"	20.4"	35.9"	43.8"	42.2"	28.6"	0.0
VELOCITY (fps)	2500	2263	2040	1830	1635	1459	1306
ENERGY (ft.-lbs.)	1388	1137	924	743	594	473	378
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.0"	-43.1"	-80.3"	-134.0"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.0"	-32.5"	-67.1"	-118.1"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.4"	0.0	-17.8"	-48.7"	-96.0"
TRAJ: 400 yds. zero	-1.5"	10.8"	16.3"	13.3"	0.0	-26.4"	-69.3"
TRAJ: 500 yds. zero	-1.5"	16.1"	26.8"	29.2"	21.1"	0.0	-37.6"
TRAJ: 600 yds. zero	-1.5"	22.3"	39.4"	48.0"	46.2"	31.3"	0.0
VELOCITY (fps)	2400	2169	1951	1747	1559	1392	1249
ENERGY (ft.-lbs.)	1279	1044	845	677	540	430	347
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-21.0"	-47.5"	-88.5"	-147.5"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-12.1"	-35.7"	-73.7"	-129.7"
TRAJ: 300 yds. zero	-1.5"	7.0"	8.1"	0.0	-19.5"	-53.5"	-105.4"
TRAJ: 400 yds. zero	-1.5"	11.9"	17.9"	14.7"	0.0	-29.0"	-76.1"
TRAJ: 500 yds. zero	-1.5"	17.7"	29.5"	32.1"	23.2"	0.0	-41.3"
TRAJ: 600 yds. zero	-1.5"	24.6"	43.2"	52.7"	50.8"	34.4"	0.0
VELOCITY (fps)	2300	2074	1862	1665	1486	1328	1197
ENERGY (ft.-lbs.)	1174	955	770	615	490	392	318
TRAJ: 100 yds. zero	-1.5"	0.0	-6.6"	-23.3"	-52.6"	-97.7"	-162.7"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-13.4"	-39.4"	-81.2"	-142.9"
TRAJ: 300 yds. zero	-1.5"	7.8"	8.9"	0.0	-21.5"	-58.9"	-116.1"
TRAJ: 400 yds. zero	-1.5"	13.1"	19.7"	16.1"	0.0	-32.0"	-83.8"
TRAJ: 500 yds. zero	-1.5"	19.5"	32.5"	35.3"	25.6"	0.0	-45.4"
TRAJ: 600 yds. zero	-1.5"	27.1"	47.6"	58.1"	55.9"	37.9"	0.0

25 CALIBER (.257" Dia.) 117 GRAIN ROUND NOSE
SECTIONAL DENSITY: .253 BALLISTIC COEFFICIENT: .243

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	2891	2517	2172	1856	1573	1333
ENERGY (ft.-lbs.)	2829	2171	1645	1226	895	643	462
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.9"	-26.5"	-52.4"	-92.4"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.9"	-21.2"	-45.6"	-84.4"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.6"	0.0	-12.0"	-34.2"	-70.6"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.6"	9.0"	0.0	-19.2"	-52.6"
TRAJ: 500 yds. zero	-1.5"	10.5"	18.3"	20.5"	15.4"	0.0	-29.6"
TRAJ: 600 yds. zero	-1.5"	15.4"	28.1"	35.3"	35.1"	24.7"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2800	2433	2095	1786	1512	1284
ENERGY (ft.-lbs.)	2660	2036	1538	1140	829	594	428
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.8"	-28.7"	-56.6"	-99.9"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.4"	-22.8"	-49.2"	-91.0"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.9"	0.0	-12.9"	-36.9"	-76.2"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.4"	9.7"	0.0	-20.7"	-56.8"
TRAJ: 500 yds. zero	-1.5"	11.3"	19.7"	22.1"	16.6"	0.0	-32.0"
TRAJ: 600 yds. zero	-1.5"	16.6"	30.3"	38.1"	37.9"	26.7"	0.0
VELOCITY (fps)	3100	2709	2349	2018	1717	1453	1238
ENERGY (ft.-lbs.)	2496	1906	1433	1058	766	548	398
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.9"	-31.1"	-61.3"	-108.2"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-8.0"	-24.6"	-53.1"	-98.4"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.3"	0.0	-13.9"	-39.8"	-82.4"
TRAJ: 400 yds. zero	-1.5"	7.8"	12.3"	10.5"	0.0	-22.4"	-61.5"
TRAJ: 500 yds. zero	-1.5"	12.3"	21.2"	23.9"	17.9"	0.0	-34.6"
TRAJ: 600 yds. zero	-1.5"	18.0"	32.8"	41.2"	41.0"	28.9"	0.0
VELOCITY (fps)	3000	2617	2265	1941	1648	1394	1194
ENERGY (ft.-lbs.)	2338	1779	1332	978	705	505	370
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-14.1"	-33.8"	-66.6"	-117.4"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.6"	-26.6"	-57.5"	-106.6"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.8"	0.0	-15.1"	-43.1"	-89.3"
TRAJ: 400 yds. zero	-1.5"	8.5"	13.3"	11.3"	0.0	-24.3"	-66.7"
TRAJ: 500 yds. zero	-1.5"	13.3"	23.0"	25.9"	19.4"	0.0	-37.6"
TRAJ: 600 yds. zero	-1.5"	19.6"	35.5"	44.7"	44.5"	31.3"	0.0
VELOCITY (fps)	2900	2525	2180	1863	1580	1338	1154
ENERGY (ft.-lbs.)	2184	1656	1235	902	648	465	346
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-15.4"	-36.8"	-72.4"	-127.7"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.4"	-28.9"	-62.5"	-115.8"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.2"	0.0	-16.4"	-46.8"	-97.0"
TRAJ: 400 yds. zero	-1.5"	9.2"	14.4"	12.3"	0.0	-26.4"	-72.5"
TRAJ: 500 yds. zero	-1.5"	14.5"	25.0"	28.1"	21.1"	0.0	-40.8"
TRAJ: 600 yds. zero	-1.5"	21.3"	38.6"	48.5"	48.3"	34.0"	0.0
VELOCITY (fps)	2800	2433	2095	1787	1513	1284	1117
ENERGY (ft.-lbs.)	2036	1538	1140	829	594	428	324
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-16.8"	-40.2"	-79.1"	-139.2"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-10.2"	-31.4"	-68.0"	-126.0"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.8"	0.0	-17.8"	-51.0"	-105.6"
TRAJ: 400 yds. zero	-1.5"	10.1"	15.7"	13.4"	0.0	-28.8"	-78.9"
TRAJ: 500 yds. zero	-1.5"	15.8"	27.2"	30.6"	23.0"	0.0	-44.3"
TRAJ: 600 yds. zero	-1.5"	23.2"	42.0"	52.8"	52.6"	37.0"	0.0
VELOCITY (fps)	2700	2341	2011	1710	1447	1233	1083
ENERGY (ft.-lbs.)	1894	1424	1050	760	544	395	305
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-18.5"	-44.1"	-86.5"	-151.9"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-11.1"	-34.3"	-74.2"	-137.3"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.4"	0.0	-19.4"	-55.7"	-115.0"
TRAJ: 400 yds. zero	-1.5"	11.0"	17.1"	14.6"	0.0	-31.4"	-85.8"
TRAJ: 500 yds. zero	-1.5"	17.3"	29.7"	33.4"	25.1"	0.0	-48.2"
TRAJ: 600 yds. zero	-1.5"	25.3"	45.8"	57.5"	57.2"	40.1"	0.0
VELOCITY (fps)	2600	2249	1926	1635	1384	1186	1053
ENERGY (ft.-lbs.)	1756	1314	964	694	497	365	288
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-20.3"	-48.4"	-94.8"	-166.0"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-12.2"	-37.5"	-81.2"	-149.7"
TRAJ: 300 yds. zero	-1.5"	6.8"	8.1"	0.0	-21.3"	-60.9"	-125.3"
TRAJ: 400 yds. zero	-1.5"	12.1"	18.8"	16.0"	0.0	-34.3"	-93.4"
TRAJ: 500 yds. zero	-1.5"	19.0"	32.5"	36.6"	27.5"	0.0	-52.2"
TRAJ: 600 yds. zero	-1.5"	27.7"	49.9"	62.7"	62.3"	43.5"	0.0
VELOCITY (fps)	2500	2157	1842	1561	1323	1143	1026
ENERGY (ft.-lbs.)	1623	1208	882	633	455	339	273
TRAJ: 100 yds. zero	-1.5"	0.0	-6.0"	-22.4"	-53.2"	-104.2"	-181.5"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-13.4"	-41.2"	-89.1"	-163.3"
TRAJ: 300 yds. zero	-1.5"	7.5"	8.9"	0.0	-23.3"	-66.8"	-136.6"
TRAJ: 400 yds. zero	-1.5"	13.3"	20.6"	17.5"	0.0	-37.6"	-101.6"
TRAJ: 500 yds. zero	-1.5"	20.8"	35.6"	40.1"	30.1"	0.0	-56.5"
TRAJ: 600 yds. zero	-1.5"	30.2"	54.4"	68.3"	67.7"	47.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2400	2065	1759	1489	1266	1104	1000
ENERGY (ft.-lbs.)	1496	1107	804	576	416	317	260
TRAJ: 100 yds. zero	-1.5"	0.0	-6.7"	-24.8"	-58.8"	-114.6"	-198.4"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-14.7"	-45.3"	-97.8"	-178.2"
TRAJ: 300 yds. zero	-1.5"	8.3"	9.8"	0.0	-25.7"	-73.3"	-148.7"
TRAJ: 400 yds. zero	-1.5"	14.7"	22.7"	19.3"	0.0	-41.2"	-110.2"
TRAJ: 500 yds. zero	-1.5"	22.9"	39.1"	44.0"	32.9"	0.0	-60.8"
TRAJ: 600 yds. zero	-1.5"	33.1"	59.4"	74.4"	73.5"	50.7"	0.0
VELOCITY (fps)	2300	1973	1677	1419	1212	1069	977
ENERGY (ft.-lbs.)	1374	1011	730	523	381	297	248
TRAJ: 100 yds. zero	-1.5"	0.0	-7.5"	-27.5"	-65.0"	-126.2"	-216.8"
TRAJ: 200 yds. zero	-1.5"	3.8"	0.0	-16.3"	-50.0"	-107.4"	-194.3"
TRAJ: 300 yds. zero	-1.5"	9.2"	10.8"	0.0	-28.3"	-80.4"	-161.8"
TRAJ: 400 yds. zero	-1.5"	16.2"	25.0"	21.2"	0.0	-45.0"	-119.3"
TRAJ: 500 yds. zero	-1.5"	25.2"	43.0"	48.2"	36.0"	0.0	-65.4"
TRAJ: 600 yds. zero	-1.5"	36.1"	64.8"	80.9"	79.6"	54.5"	0.0
VELOCITY (fps)	2200	1881	1595	1351	1163	1038	955
ENERGY (ft.-lbs.)	1257	920	661	474	351	280	237
TRAJ: 100 yds. zero	-1.5"	0.0	-8.4"	-30.6"	-72.1"	-139.1"	-236.9"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-18.0"	-55.2"	-118.1"	-211.7"
TRAJ: 300 yds. zero	-1.5"	10.2"	12.0"	0.0	-31.2"	-88.1"	-175.7"
TRAJ: 400 yds. zero	-1.5"	18.0"	27.6"	23.4"	0.0	-49.0"	-128.8"
TRAJ: 500 yds. zero	-1.5"	27.8"	47.2"	52.8"	39.2"	0.0	-70.0"
TRAJ: 600 yds. zero	-1.5"	39.5"	70.6"	87.8"	85.9"	58.3"	0.0
VELOCITY (fps)	2100	1791	1516	1287	1118	1010	935
ENERGY (ft.-lbs.)	1145	833	597	430	325	265	227
TRAJ: 100 yds. zero	-1.5"	0.0	-9.4"	-34.2"	-80.0"	-153.3"	-258.7"
TRAJ: 200 yds. zero	-1.5"	4.7"	0.0	-20.0"	-61.1"	-129.6"	-230.3"
TRAJ: 300 yds. zero	-1.5"	11.4"	13.3"	0.0	-34.5"	-96.3"	-190.4"
TRAJ: 400 yds. zero	-1.5"	20.0"	30.6"	25.8"	0.0	-53.3"	-138.7"
TRAJ: 500 yds. zero	-1.5"	30.7"	51.9"	57.8"	42.6"	0.0	-74.8"
TRAJ: 600 yds. zero	-1.5"	43.1"	76.8"	95.2"	92.4"	62.3"	0.0
VELOCITY (fps)	2000	1701	1439	1227	1079	984	915
ENERGY (ft.-lbs.)	1039	751	538	391	302	251	217
TRAJ: 100 yds. zero	-1.5"	0.0	-10.6"	-38.2"	-88.9"	-168.8"	-282.2"
TRAJ: 200 yds. zero	-1.5"	5.3"	0.0	-22.3"	-67.7"	-142.2"	-250.3"
TRAJ: 300 yds. zero	-1.5"	12.7"	14.8"	0.0	-38.0"	-105.1"	-205.8"
TRAJ: 400 yds. zero	-1.5"	22.2"	33.8"	28.5"	0.0	-57.6"	-148.8"
TRAJ: 500 yds. zero	-1.5"	33.8"	56.9"	63.1"	46.1"	0.0	-79.7"
TRAJ: 600 yds. zero	-1.5"	47.0"	83.4"	102.9"	99.2"	66.4"	0.0
VELOCITY (fps)	1900	1612	1365	1172	1044	960	896
ENERGY (ft.-lbs.)	938	675	484	357	283	239	208
TRAJ: 100 yds. zero	-1.5"	0.0	-12.0"	-42.8"	-98.9"	-185.7"	-307.7"
TRAJ: 200 yds. zero	-1.5"	6.0"	0.0	-24.8"	-74.9"	-155.7"	-271.6"
TRAJ: 300 yds. zero	-1.5"	14.3"	16.5"	0.0	-41.8"	-114.3"	-222.0"
TRAJ: 400 yds. zero	-1.5"	24.7"	37.4"	31.3"	0.0	-62.1"	-159.4"
TRAJ: 500 yds. zero	-1.5"	37.1"	62.3"	68.6"	49.7"	0.0	-84.8"
TRAJ: 600 yds. zero	-1.5"	51.3"	90.5"	111.0"	106.2"	70.7"	0.0

25 CALIBER (.257" Dia.) 117 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .253 BALLISTIC COEFFICIENT: .376

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	3031	2778	2539	2312	2097	1893
ENERGY (ft.-lbs.)	2829	2386	2005	1674	1388	1142	931
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.1"	-21.3"	-40.0"	-66.7"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.7"	-16.7"	-34.3"	-59.8"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.2"	-24.9"	-48.5"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.4"	6.9"	0.0	-13.4"	-34.7"
TRAJ: 500 yds. zero	-1.5"	8.0"	13.7"	14.9"	10.7"	0.0	-18.6"
TRAJ: 600 yds. zero	-1.5"	11.1"	19.9"	24.2"	23.1"	15.5"	0.0
VELOCITY (fps)	3200	2937	2689	2455	2232	2021	1822
ENERGY (ft.-lbs.)	2660	2241	1879	1565	1294	1061	863
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-9.9"	-23.0"	-43.2"	-71.8"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.1"	-18.0"	-36.8"	-64.2"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.1"	0.0	-9.8"	-26.7"	-52.0"
TRAJ: 400 yds. zero	-1.5"	5.8"	9.0"	7.4"	0.0	-14.4"	-37.3"
TRAJ: 500 yds. zero	-1.5"	8.6"	14.7"	16.0"	11.5"	0.0	-20.0"
TRAJ: 600 yds. zero	-1.5"	12.0"	21.4"	26.0"	24.9"	16.7"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2843	2600	2370	2152	1945	1752
ENERGY (ft.-lbs.)	2496	2100	1756	1459	1203	983	797
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.8"	-24.9"	-46.6"	-77.5"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.6"	-19.3"	-39.6"	-69.1"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.4"	0.0	-10.6"	-28.7"	-56.0"
TRAJ: 400 yds. zero	-1.5"	6.2"	9.7"	7.9"	0.0	-15.5"	-40.1"
TRAJ: 500 yds. zero	-1.5"	9.3"	15.8"	17.2"	12.4"	0.0	-21.6"
TRAJ: 600 yds. zero	-1.5"	12.9"	23.0"	28.0"	26.8"	18.0"	0.0
VELOCITY (fps)	3000	2749	2511	2286	2072	1870	1682
ENERGY (ft.-lbs.)	2338	1963	1638	1357	1115	908	735
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.7"	-27.1"	-50.5"	-83.9"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.1"	-20.8"	-42.7"	-74.6"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.7"	0.0	-11.4"	-30.9"	-60.4"
TRAJ: 400 yds. zero	-1.5"	6.8"	10.4"	8.5"	0.0	-16.7"	-43.3"
TRAJ: 500 yds. zero	-1.5"	10.1"	17.1"	18.5"	13.3"	0.0	-23.3"
TRAJ: 600 yds. zero	-1.5"	14.0"	24.9"	30.2"	28.9"	19.4"	0.0
VELOCITY (fps)	2900	2654	2421	2200	1991	1795	1612
ENERGY (ft.-lbs.)	2184	1830	1523	1258	1030	837	675
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.8"	-29.4"	-54.8"	-91.1"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.7"	-22.5"	-46.2"	-80.7"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.1"	0.0	-12.3"	-33.4"	-65.4"
TRAJ: 400 yds. zero	-1.5"	7.4"	11.3"	9.2"	0.0	-18.0"	-46.9"
TRAJ: 500 yds. zero	-1.5"	11.0"	18.5"	20.1"	14.4"	0.0	-25.3"
TRAJ: 600 yds. zero	-1.5"	15.2"	26.9"	32.7"	31.3"	21.1"	0.0
VELOCITY (fps)	2800	2560	2332	2115	1911	1720	1544
ENERGY (ft.-lbs.)	2036	1702	1412	1162	949	768	619
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.1"	-32.1"	-59.7"	-99.1"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.3"	-24.4"	-50.1"	-87.6"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.5"	0.0	-13.3"	-36.2"	-71.0"
TRAJ: 400 yds. zero	-1.5"	8.0"	12.2"	10.0"	0.0	-19.6"	-51.0"
TRAJ: 500 yds. zero	-1.5"	11.9"	20.0"	21.7"	15.7"	0.0	-27.5"
TRAJ: 600 yds. zero	-1.5"	16.5"	29.2"	35.5"	34.0"	22.9"	0.0
VELOCITY (fps)	2700	2465	2242	2030	1831	1646	1477
ENERGY (ft.-lbs.)	1894	1578	1305	1071	871	704	567
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.4"	-35.1"	-65.1"	-108.1"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.1"	-26.6"	-54.5"	-95.4"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.0"	0.0	-14.5"	-39.4"	-77.3"
TRAJ: 400 yds. zero	-1.5"	8.8"	13.3"	10.9"	0.0	-21.3"	-55.5"
TRAJ: 500 yds. zero	-1.5"	13.0"	21.8"	23.7"	17.0"	0.0	-29.9"
TRAJ: 600 yds. zero	-1.5"	18.0"	31.8"	38.6"	37.0"	25.0"	0.0
VELOCITY (fps)	2600	2370	2152	1945	1752	1573	1412
ENERGY (ft.-lbs.)	1756	1459	1203	983	797	643	518
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-16.9"	-38.4"	-71.3"	-118.2"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-9.9"	-29.0"	-59.5"	-104.1"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.6"	0.0	-15.8"	-43.0"	-84.4"
TRAJ: 400 yds. zero	-1.5"	9.6"	14.5"	11.9"	0.0	-23.2"	-60.6"
TRAJ: 500 yds. zero	-1.5"	14.3"	23.8"	25.8"	18.6"	0.0	-32.7"
TRAJ: 600 yds. zero	-1.5"	19.7"	34.7"	42.2"	40.4"	27.3"	0.0
VELOCITY (fps)	2500	2275	2062	1861	1673	1502	1349
ENERGY (ft.-lbs.)	1623	1344	1104	899	727	586	473
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-18.7"	-42.2"	-78.2"	-129.7"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.8"	-31.7"	-65.1"	-114.0"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.2"	0.0	-17.3"	-47.1"	-92.4"
TRAJ: 400 yds. zero	-1.5"	10.6"	15.9"	13.0"	0.0	-25.5"	-66.4"
TRAJ: 500 yds. zero	-1.5"	15.6"	26.0"	28.2"	20.4"	0.0	-35.9"
TRAJ: 600 yds. zero	-1.5"	21.6"	38.0"	46.2"	44.3"	29.9"	0.0
VELOCITY (fps)	2400	2180	1972	1777	1596	1432	1290
ENERGY (ft.-lbs.)	1496	1235	1010	820	662	533	432
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-20.6"	-46.5"	-86.1"	-142.7"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.9"	-34.8"	-71.5"	-125.2"
TRAJ: 300 yds. zero	-1.5"	6.9"	7.9"	0.0	-19.0"	-51.7"	-101.5"
TRAJ: 400 yds. zero	-1.5"	11.6"	17.4"	14.2"	0.0	-28.0"	-73.0"
TRAJ: 500 yds. zero	-1.5"	17.2"	28.6"	31.0"	22.4"	0.0	-39.4"
TRAJ: 600 yds. zero	-1.5"	23.8"	41.7"	50.7"	48.7"	32.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2300	2085	1883	1694	1520	1366	1234
ENERGY (ft.-lbs.)	1374	1130	921	745	600	484	395
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-22.9"	-51.4"	-95.1"	-157.5"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-13.1"	-38.4"	-78.8"	-137.9"
TRAJ: 300 yds. zero	-1.5"	7.6"	8.7"	0.0	-20.9"	-56.9"	-111.7"
TRAJ: 400 yds. zero	-1.5"	12.9"	19.2"	15.7"	0.0	-30.8"	-80.4"
TRAJ: 500 yds. zero	-1.5"	19.0"	31.5"	34.2"	24.6"	0.0	-43.4"
TRAJ: 600 yds. zero	-1.5"	26.3"	46.0"	55.9"	53.6"	36.2"	0.0
VELOCITY (fps)	2200	1991	1794	1612	1447	1302	1182
ENERGY (ft.-lbs.)	1257	1029	836	675	544	440	363
TRAJ: 100 yds. zero	-1.5"	0.0	-7.3"	-25.4"	-57.0"	-105.3"	-174.2"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-14.5"	-42.4"	-87.0"	-152.3"
TRAJ: 300 yds. zero	-1.5"	8.5"	9.7"	0.0	-23.1"	-62.9"	-123.3"
TRAJ: 400 yds. zero	-1.5"	14.3"	21.2"	17.3"	0.0	-34.0"	-88.7"
TRAJ: 500 yds. zero	-1.5"	21.1"	34.8"	37.7"	27.2"	0.0	-47.8"
TRAJ: 600 yds. zero	-1.5"	29.0"	50.8"	61.7"	59.1"	39.9"	0.0
VELOCITY (fps)	2100	1897	1706	1532	1376	1242	1136
ENERGY (ft.-lbs.)	1145	934	756	609	492	401	335
TRAJ: 100 yds. zero	-1.5"	0.0	-8.2"	-28.4"	-63.4"	-117.0"	-193.1"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-16.1"	-47.0"	-96.5"	-168.5"
TRAJ: 300 yds. zero	-1.5"	9.5"	10.7"	0.0	-25.6"	-69.7"	-136.4"
TRAJ: 400 yds. zero	-1.5"	15.9"	23.5"	19.2"	0.0	-37.7"	-98.0"
TRAJ: 500 yds. zero	-1.5"	23.4"	38.6"	41.8"	30.1"	0.0	-52.8"
TRAJ: 600 yds. zero	-1.5"	32.2"	56.2"	68.2"	65.3"	44.0"	0.0
VELOCITY (fps)	2000	1803	1620	1454	1308	1187	1094
ENERGY (ft.-lbs.)	1039	844	682	549	444	366	311
TRAJ: 100 yds. zero	-1.5"	0.0	-9.2"	-31.8"	-70.8"	-130.3"	-214.4"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-17.9"	-52.3"	-107.2"	-186.7"
TRAJ: 300 yds. zero	-1.5"	10.6"	11.9"	0.0	-28.5"	-77.3"	-150.9"
TRAJ: 400 yds. zero	-1.5"	17.7"	26.2"	21.3"	0.0	-41.8"	-108.2"
TRAJ: 500 yds. zero	-1.5"	26.1"	42.9"	46.4"	33.4"	0.0	-58.1"
TRAJ: 600 yds. zero	-1.5"	35.7"	62.2"	75.5"	72.2"	48.4"	0.0
VELOCITY (fps)	1900	1710	1535	1378	1244	1137	1057
ENERGY (ft.-lbs.)	938	759	612	493	402	336	290
TRAJ: 100 yds. zero	-1.5"	0.0	-10.4"	-35.7"	-79.3"	-145.4"	-238.3"
TRAJ: 200 yds. zero	-1.5"	5.2"	0.0	-20.0"	-58.4"	-119.3"	-207.0"
TRAJ: 300 yds. zero	-1.5"	11.9"	13.4"	0.0	-31.7"	-86.0"	-167.0"
TRAJ: 400 yds. zero	-1.5"	19.8"	29.2"	23.8"	0.0	-46.3"	-119.4"
TRAJ: 500 yds. zero	-1.5"	29.1"	47.7"	51.6"	37.0"	0.0	-63.8"
TRAJ: 600 yds. zero	-1.5"	39.7"	69.0"	83.5"	79.6"	53.2"	0.0

25 CALIBER (.257" Dia.) 120 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .260 BALLISTIC COEFFICIENT: .394

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	3043	2801	2571	2352	2145	1948
ENERGY (ft.-lbs.)	2901	2467	2089	1761	1474	1225	1011
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.0"	-20.9"	-39.2"	-65.0"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.6"	-16.4"	-33.5"	-58.2"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.7"	0.0	-9.0"	-24.3"	-47.1"
TRAJ: 400 yds. zero	-1.5"	5.2"	8.2"	6.7"	0.0	-13.0"	-33.6"
TRAJ: 500 yds. zero	-1.5"	7.8"	13.4"	14.6"	10.4"	0.0	-18.0"
TRAJ: 600 yds. zero	-1.5"	10.8"	19.4"	23.5"	22.4"	15.0"	0.0
VELOCITY (fps)	3200	2949	2711	2486	2272	2068	1876
ENERGY (ft.-lbs.)	2728	2317	1959	1647	1375	1140	937
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-9.7"	-22.6"	-42.2"	-70.0"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.0"	-17.6"	-36.0"	-62.5"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.0"	0.0	-9.6"	-26.0"	-50.5"
TRAJ: 400 yds. zero	-1.5"	5.7"	8.8"	7.2"	0.0	-14.0"	-36.1"
TRAJ: 500 yds. zero	-1.5"	8.4"	14.4"	15.6"	11.2"	0.0	-19.3"
TRAJ: 600 yds. zero	-1.5"	11.7"	20.8"	25.3"	24.1"	16.1"	0.0
VELOCITY (fps)	3100	2854	2622	2401	2191	1992	1804
ENERGY (ft.-lbs.)	2560	2171	1832	1536	1279	1057	867
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.6"	-24.5"	-45.6"	-75.6"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.5"	-18.9"	-38.7"	-67.2"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.3"	0.0	-10.3"	-27.9"	-54.3"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.5"	7.8"	0.0	-15.0"	-38.8"
TRAJ: 500 yds. zero	-1.5"	9.1"	15.5"	16.8"	12.0"	0.0	-20.8"
TRAJ: 600 yds. zero	-1.5"	12.6"	22.4"	27.2"	25.9"	17.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2760	2532	2316	2110	1915	1732
ENERGY (ft.-lbs.)	2398	2029	1708	1429	1186	977	799
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.6"	-26.6"	-49.4"	-81.8"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.0"	-20.4"	-41.7"	-72.5"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.6"	0.0	-11.1"	-30.1"	-58.6"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.2"	8.4"	0.0	-16.2"	-41.9"
TRAJ: 500 yds. zero	-1.5"	9.9"	16.7"	18.1"	13.0"	0.0	-22.5"
TRAJ: 600 yds. zero	-1.5"	13.6"	24.2"	29.3"	27.9"	18.7"	0.0
VELOCITY (fps)	2900	2665	2442	2230	2029	1838	1661
ENERGY (ft.-lbs.)	2240	1892	1589	1325	1096	900	735
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.6"	-28.9"	-53.6"	-88.7"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.5"	-22.1"	-45.1"	-78.5"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.0"	0.0	-12.0"	-32.5"	-63.4"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.0"	9.0"	0.0	-17.5"	-45.3"
TRAJ: 500 yds. zero	-1.5"	10.7"	18.0"	19.5"	14.0"	0.0	-24.3"
TRAJ: 600 yds. zero	-1.5"	14.8"	26.2"	31.7"	30.2"	20.3"	0.0
VELOCITY (fps)	2800	2570	2352	2144	1947	1762	1590
ENERGY (ft.-lbs.)	2089	1760	1474	1225	1010	827	674
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-13.8"	-31.5"	-58.4"	-96.5"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.2"	-24.0"	-48.9"	-85.1"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.5"	0.0	-13.0"	-35.3"	-68.8"
TRAJ: 400 yds. zero	-1.5"	7.9"	12.0"	9.8"	0.0	-19.0"	-49.2"
TRAJ: 500 yds. zero	-1.5"	11.7"	19.6"	21.2"	15.2"	0.0	-26.4"
TRAJ: 600 yds. zero	-1.5"	16.1"	28.4"	34.4"	32.8"	22.0"	0.0
VELOCITY (fps)	2700	2475	2262	2058	1866	1687	1521
ENERGY (ft.-lbs.)	1942	1632	1363	1129	928	758	617
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.2"	-34.4"	-63.7"	-105.2"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-8.9"	-26.0"	-53.2"	-92.6"
TRAJ: 300 yds. zero	-1.5"	5.1"	5.9"	0.0	-14.2"	-38.4"	-74.8"
TRAJ: 400 yds. zero	-1.5"	8.6"	13.0"	10.6"	0.0	-20.6"	-53.6"
TRAJ: 500 yds. zero	-1.5"	12.7"	21.3"	23.0"	16.5"	0.0	-28.8"
TRAJ: 600 yds. zero	-1.5"	17.5"	30.9"	37.4"	35.7"	24.0"	0.0
VELOCITY (fps)	2600	2380	2171	1973	1786	1612	1454
ENERGY (ft.-lbs.)	1801	1509	1256	1037	850	693	563
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-16.7"	-37.7"	-69.7"	-115.1"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.7"	-28.4"	-58.0"	-101.1"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.5"	0.0	-15.4"	-41.8"	-81.7"
TRAJ: 400 yds. zero	-1.5"	9.4"	14.2"	11.6"	0.0	-22.5"	-58.5"
TRAJ: 500 yds. zero	-1.5"	13.9"	23.2"	25.1"	18.0"	0.0	-31.5"
TRAJ: 600 yds. zero	-1.5"	19.2"	33.7"	40.8"	39.0"	26.2"	0.0
VELOCITY (fps)	2500	2285	2081	1887	1706	1539	1389
ENERGY (ft.-lbs.)	1665	1391	1153	949	776	631	514
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-18.4"	-41.4"	-76.4"	-126.2"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.6"	-31.1"	-63.5"	-110.7"
TRAJ: 300 yds. zero	-1.5"	6.1"	7.1"	0.0	-16.9"	-45.8"	-89.4"
TRAJ: 400 yds. zero	-1.5"	10.4"	15.5"	12.7"	0.0	-24.7"	-64.1"
TRAJ: 500 yds. zero	-1.5"	15.3"	25.4"	27.5"	19.7"	0.0	-34.5"
TRAJ: 600 yds. zero	-1.5"	21.0"	36.9"	44.7"	42.7"	28.7"	0.0
VELOCITY (fps)	2400	2190	1991	1803	1628	1468	1327
ENERGY (ft.-lbs.)	1535	1278	1056	866	706	574	469
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-20.3"	-45.6"	-84.1"	-138.9"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.7"	-34.1"	-69.7"	-121.6"
TRAJ: 300 yds. zero	-1.5"	6.8"	7.8"	0.0	-18.5"	-50.2"	-98.2"
TRAJ: 400 yds. zero	-1.5"	11.4"	17.1"	13.9"	0.0	-27.1"	-70.4"
TRAJ: 500 yds. zero	-1.5"	16.8"	27.9"	30.1"	21.7"	0.0	-37.9"
TRAJ: 600 yds. zero	-1.5"	23.1"	40.5"	49.1"	46.9"	31.6"	0.0
VELOCITY (fps)	2300	2095	1901	1719	1551	1399	1267
ENERGY (ft.-lbs.)	1409	1169	962	787	641	521	428
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-22.5"	-50.4"	-92.9"	-153.2"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-12.9"	-37.6"	-76.8"	-133.9"
TRAJ: 300 yds. zero	-1.5"	7.5"	8.6"	0.0	-20.4"	-55.3"	-108.1"
TRAJ: 400 yds. zero	-1.5"	12.6"	18.8"	15.3"	0.0	-29.8"	-77.5"
TRAJ: 500 yds. zero	-1.5"	18.6"	30.7"	33.2"	23.9"	0.0	-41.7"
TRAJ: 600 yds. zero	-1.5"	25.5"	44.6"	54.1"	51.7"	34.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2200	2000	1812	1636	1475	1333	1212
ENERGY (ft.-lbs.)	1289	1066	874	713	580	473	392
TRAJ: 100 yds. zero	-1.5"	0.0	-7.2"	-25.1"	-55.9"	-102.9"	-169.5"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-14.2"	-41.5"	-84.8"	-147.8"
TRAJ: 300 yds. zero	-1.5"	8.4"	9.5"	0.0	-22.5"	-61.1"	-119.4"
TRAJ: 400 yds. zero	-1.5"	14.0"	20.8"	16.9"	0.0	-32.9"	-85.6"
TRAJ: 500 yds. zero	-1.5"	20.6"	33.9"	36.7"	26.4"	0.0	-46.0"
TRAJ: 600 yds. zero	-1.5"	28.2"	49.3"	59.7"	57.0"	38.4"	0.0
VELOCITY (fps)	2100	1906	1723	1555	1403	1271	1162
ENERGY (ft.-lbs.)	1175	967	791	644	524	430	360
TRAJ: 100 yds. zero	-1.5"	0.0	-8.1"	-28.0"	-62.3"	-114.3"	-187.9"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-15.8"	-46.0"	-94.0"	-163.6"
TRAJ: 300 yds. zero	-1.5"	9.3"	10.5"	0.0	-25.0"	-67.7"	-132.0"
TRAJ: 400 yds. zero	-1.5"	15.6"	23.0"	18.7"	0.0	-36.5"	-94.6"
TRAJ: 500 yds. zero	-1.5"	22.9"	37.6"	40.6"	29.2"	0.0	-50.8"
TRAJ: 600 yds. zero	-1.5"	31.3"	54.5"	66.0"	63.0"	42.4"	0.0
VELOCITY (fps)	2000	1812	1636	1475	1333	1212	1117
ENERGY (ft.-lbs.)	1066	874	713	580	473	392	332
TRAJ: 100 yds. zero	-1.5"	0.0	-9.1"	-31.3"	-69.5"	-127.3"	-208.9"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-17.6"	-51.2"	-104.5"	-181.5"
TRAJ: 300 yds. zero	-1.5"	10.4"	11.7"	0.0	-27.8"	-75.2"	-146.3"
TRAJ: 400 yds. zero	-1.5"	17.4"	25.6"	20.8"	0.0	-40.5"	-104.7"
TRAJ: 500 yds. zero	-1.5"	25.5"	41.8"	45.1"	32.4"	0.0	-56.1"
TRAJ: 600 yds. zero	-1.5"	34.8"	60.5"	73.2"	69.8"	46.8"	0.0
VELOCITY (fps)	1900	1718	1550	1398	1267	1159	1077
ENERGY (ft.-lbs.)	962	786	640	521	428	358	309
TRAJ: 100 yds. zero	-1.5"	0.0	-10.3"	-35.2"	-77.8"	-142.2"	-232.4"
TRAJ: 200 yds. zero	-1.5"	5.2"	0.0	-19.7"	-57.2"	-116.4"	-201.5"
TRAJ: 300 yds. zero	-1.5"	11.7"	13.1"	0.0	-30.9"	-83.6"	-162.1"
TRAJ: 400 yds. zero	-1.5"	19.5"	28.6"	23.2"	0.0	-44.9"	-115.7"
TRAJ: 500 yds. zero	-1.5"	28.4"	46.6"	50.2"	35.9"	0.0	-61.8"
TRAJ: 600 yds. zero	-1.5"	38.7"	67.2"	81.1"	77.2"	51.5"	0.0

6.5MM CALIBER (.264" Dia.) 100 GRAIN SPIRE POINT
SECTIONAL DENSITY: .205 BALLISTIC COEFFICIENT: .358

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3600	3297	3016	2751	2502	2266	2042
ENERGY (ft.-lbs.)	2877	2414	2019	1680	1389	1140	926
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.2"	-17.4"	-33.1"	-55.5"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-4.7"	-14.0"	-28.8"	-50.4"
TRAJ: 300 yds. zero	-1.5"	2.4"	3.1"	0.0	-7.7"	-21.0"	-41.1"
TRAJ: 400 yds. zero	-1.5"	4.3"	7.0"	5.8"	0.0	-11.4"	-29.5"
TRAJ: 500 yds. zero	-1.5"	6.6"	11.5"	12.6"	9.1"	0.0	-15.9"
TRAJ: 600 yds. zero	-1.5"	9.3"	16.8"	20.5"	19.7"	13.2"	0.0
VELOCITY (fps)	3500	3205	2929	2669	2424	2192	1973
ENERGY (ft.-lbs.)	2720	2280	1904	1582	1305	1067	864
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-7.8"	-18.7"	-35.4"	-59.5"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.0"	-14.9"	-30.7"	-53.8"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.3"	0.0	-8.2"	-22.4"	-43.8"
TRAJ: 400 yds. zero	-1.5"	4.7"	7.5"	6.2"	0.0	-12.1"	-31.4"
TRAJ: 500 yds. zero	-1.5"	7.1"	12.3"	13.4"	9.7"	0.0	-16.9"
TRAJ: 600 yds. zero	-1.5"	9.9"	17.9"	21.9"	21.0"	14.1"	0.0
VELOCITY (fps)	3400	3111	2841	2587	2346	2118	1904
ENERGY (ft.-lbs.)	2566	2149	1792	1485	1222	996	805
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.5"	-20.1"	-38.1"	-63.8"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.4"	-15.9"	-32.8"	-57.5"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.6"	0.0	-8.8"	-23.9"	-46.8"
TRAJ: 400 yds. zero	-1.5"	5.0"	8.0"	6.6"	0.0	-12.9"	-33.6"
TRAJ: 500 yds. zero	-1.5"	7.6"	13.1"	14.3"	10.3"	0.0	-18.1"
TRAJ: 600 yds. zero	-1.5"	10.6"	19.2"	23.4"	22.4"	15.1"	0.0
VELOCITY (fps)	3300	3018	2753	2504	2268	2044	1835
ENERGY (ft.-lbs.)	2418	2022	1683	1392	1142	928	747
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.2"	-21.7"	-41.0"	-68.6"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.8"	-17.1"	-35.2"	-61.6"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.8"	0.0	-9.4"	-25.6"	-50.1"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.5"	7.0"	0.0	-13.8"	-36.0"
TRAJ: 500 yds. zero	-1.5"	8.2"	14.1"	15.3"	11.1"	0.0	-19.4"
TRAJ: 600 yds. zero	-1.5"	11.4"	20.5"	25.0"	24.0"	16.2"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2924	2665	2420	2189	1970	1765
ENERGY (ft.-lbs.)	2273	1899	1577	1301	1063	862	692
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.1"	-23.5"	-44.2"	-73.9"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.2"	-18.3"	-37.8"	-66.2"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.1"	0.0	-10.1"	-27.4"	-53.8"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.2"	7.6"	0.0	-14.8"	-38.7"
TRAJ: 500 yds. zero	-1.5"	8.8"	15.1"	16.5"	11.9"	0.0	-20.9"
TRAJ: 600 yds. zero	-1.5"	12.3"	22.1"	26.9"	25.8"	17.4"	0.0
VELOCITY (fps)	3100	2831	2577	2337	2109	1896	1696
ENERGY (ft.-lbs.)	2133	1779	1474	1212	988	798	639
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.9"	-25.4"	-47.8"	-79.8"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.7"	-19.7"	-40.6"	-71.2"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.4"	0.0	-10.8"	-29.5"	-57.9"
TRAJ: 400 yds. zero	-1.5"	6.4"	9.9"	8.1"	0.0	-16.0"	-41.6"
TRAJ: 500 yds. zero	-1.5"	9.6"	16.3"	17.7"	12.8"	0.0	-22.5"
TRAJ: 600 yds. zero	-1.5"	13.3"	23.7"	28.9"	27.8"	18.7"	0.0
VELOCITY (fps)	3000	2736	2488	2253	2030	1821	1628
ENERGY (ft.-lbs.)	1998	1662	1374	1126	915	736	588
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-11.9"	-27.6"	-51.7"	-86.4"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.2"	-21.3"	-43.8"	-76.9"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.7"	-31.8"	-62.5"
TRAJ: 400 yds. zero	-1.5"	6.9"	10.6"	8.8"	0.0	-17.2"	-45.0"
TRAJ: 500 yds. zero	-1.5"	10.3"	17.5"	19.1"	13.8"	0.0	-24.3"
TRAJ: 600 yds. zero	-1.5"	14.4"	25.6"	31.3"	30.0"	20.3"	0.0
VELOCITY (fps)	2900	2642	2399	2168	1951	1747	1560
ENERGY (ft.-lbs.)	1867	1550	1277	1044	845	678	541
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.0"	-30.0"	-56.2"	-93.8"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.8"	-23.0"	-47.4"	-83.3"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.2"	0.0	-12.6"	-34.4"	-67.7"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.5"	9.5"	0.0	-18.6"	-48.7"
TRAJ: 500 yds. zero	-1.5"	11.2"	19.0"	20.7"	14.9"	0.0	-26.4"
TRAJ: 600 yds. zero	-1.5"	15.6"	27.8"	33.8"	32.5"	22.0"	0.0
VELOCITY (fps)	2800	2548	2309	2084	1871	1674	1494
ENERGY (ft.-lbs.)	1741	1441	1184	964	777	622	496
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.3"	-32.7"	-61.1"	-102.1"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.5"	-25.0"	-51.5"	-90.4"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.6"	0.0	-13.7"	-37.3"	-73.5"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.5"	10.3"	0.0	-20.2"	-53.0"
TRAJ: 500 yds. zero	-1.5"	12.2"	20.6"	22.4"	16.2"	0.0	-28.7"
TRAJ: 600 yds. zero	-1.5"	17.0"	30.1"	36.7"	35.3"	23.9"	0.0
VELOCITY (fps)	2700	2453	2220	1999	1793	1602	1430
ENERGY (ft.-lbs.)	1618	1336	1094	887	713	570	454
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-15.7"	-35.8"	-66.7"	-111.4"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.2"	-27.2"	-56.0"	-98.5"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.2"	0.0	-14.9"	-40.6"	-80.0"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.6"	11.2"	0.0	-22.0"	-57.7"
TRAJ: 500 yds. zero	-1.5"	13.3"	22.4"	24.4"	17.6"	0.0	-31.3"
TRAJ: 600 yds. zero	-1.5"	18.6"	32.8"	40.0"	38.5"	26.1"	0.0
VELOCITY (fps)	2600	2359	2130	1915	1714	1531	1368
ENERGY (ft.-lbs.)	1501	1235	1008	814	652	520	415
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-17.2"	-39.2"	-73.1"	-121.9"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.1"	-29.7"	-61.1"	-107.6"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.7"	0.0	-16.2"	-44.4"	-87.4"
TRAJ: 400 yds. zero	-1.5"	9.8"	14.8"	12.2"	0.0	-24.1"	-63.1"
TRAJ: 500 yds. zero	-1.5"	14.6"	24.5"	26.6"	19.3"	0.0	-34.2"
TRAJ: 600 yds. zero	-1.5"	20.3"	35.9"	43.7"	42.1"	28.5"	0.0
VELOCITY (fps)	2500	2264	2041	1831	1637	1461	1308
ENERGY (ft.-lbs.)	1388	1138	925	745	595	474	380
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.0"	-43.1"	-80.2"	-133.8"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.0"	-32.5"	-67.0"	-117.8"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.4"	0.0	-17.8"	-48.6"	-95.8"
TRAJ: 400 yds. zero	-1.5"	10.8"	16.2"	13.3"	0.0	-26.4"	-69.1"
TRAJ: 500 yds. zero	-1.5"	16.0"	26.8"	29.1"	21.1"	0.0	-37.5"
TRAJ: 600 yds. zero	-1.5"	22.3"	39.3"	47.9"	46.1"	31.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2400	2169	1952	1748	1561	1394	1252
ENERGY (ft.-lbs.)	1279	1045	846	679	541	432	348
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-21.0"	-47.5"	-88.3"	-147.2"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-12.1"	-35.7"	-73.6"	-129.5"
TRAJ: 300 yds. zero	-1.5"	7.0"	8.1"	0.0	-19.5"	-53.4"	-105.2"
TRAJ: 400 yds. zero	-1.5"	11.9"	17.8"	14.6"	0.0	-29.0"	-76.0"
TRAJ: 500 yds. zero	-1.5"	17.7"	29.4"	32.0"	23.2"	0.0	-41.2"
TRAJ: 600 yds. zero	-1.5"	24.5"	43.2"	52.6"	50.6"	34.3"	0.0
VELOCITY (fps)	2300	2075	1863	1666	1488	1330	1199
ENERGY (ft.-lbs.)	1174	956	771	616	491	393	319
TRAJ: 100 yds. zero	-1.5"	0.0	-6.6"	-23.3"	-52.5"	-97.5"	-162.4"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-13.4"	-39.3"	-81.0"	-142.6"
TRAJ: 300 yds. zero	-1.5"	7.8"	8.9"	0.0	-21.5"	-58.8"	-115.9"
TRAJ: 400 yds. zero	-1.5"	13.1"	19.6"	16.1"	0.0	-31.9"	-83.6"
TRAJ: 500 yds. zero	-1.5"	19.5"	32.4"	35.3"	25.5"	0.0	-45.3"
TRAJ: 600 yds. zero	-1.5"	27.1"	47.5"	57.9"	55.8"	37.8"	0.0
VELOCITY (fps)	2200	1981	1775	1586	1416	1269	1152
ENERGY (ft.-lbs.)	1075	871	700	558	445	358	294
TRAJ: 100 yds. zero	-1.5"	0.0	-7.4"	-25.9"	-58.2"	-108.0"	-179.6"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-14.8"	-43.4"	-89.6"	-157.4"
TRAJ: 300 yds. zero	-1.5"	8.6"	9.9"	0.0	-23.7"	-64.9"	-127.8"
TRAJ: 400 yds. zero	-1.5"	14.6"	21.7"	17.8"	0.0	-35.2"	-92.2"
TRAJ: 500 yds. zero	-1.5"	21.6"	35.8"	39.0"	28.2"	0.0	-49.9"
TRAJ: 600 yds. zero	-1.5"	29.9"	52.5"	63.9"	61.5"	41.6"	0.0
VELOCITY (fps)	2100	1887	1688	1507	1347	1213	1109
ENERGY (ft.-lbs.)	979	790	633	504	403	327	273
TRAJ: 100 yds. zero	-1.5"	0.0	-8.3"	-28.9"	-64.8"	-120.0"	-198.9"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-16.4"	-48.2"	-99.2"	-174.0"
TRAJ: 300 yds. zero	-1.5"	9.6"	10.9"	0.0	-26.3"	-71.9"	-141.2"
TRAJ: 400 yds. zero	-1.5"	16.2"	24.1"	19.7"	0.0	-39.0"	-101.7"
TRAJ: 500 yds. zero	-1.5"	24.0"	39.7"	43.1"	31.2"	0.0	-54.9"
TRAJ: 600 yds. zero	-1.5"	33.2"	58.0"	70.6"	67.8"	45.8"	0.0
VELOCITY (fps)	2000	1793	1602	1430	1282	1161	1071
ENERGY (ft.-lbs.)	888	714	570	454	365	299	255
TRAJ: 100 yds. zero	-1.5"	0.0	-9.4"	-32.3"	-72.3"	-133.6"	-220.6"
TRAJ: 200 yds. zero	-1.5"	4.7"	0.0	-18.3"	-53.6"	-110.2"	-192.6"
TRAJ: 300 yds. zero	-1.5"	10.8"	12.2"	0.0	-29.2"	-79.8"	-156.0"
TRAJ: 400 yds. zero	-1.5"	18.1"	26.8"	21.9"	0.0	-43.2"	-112.2"
TRAJ: 500 yds. zero	-1.5"	26.7"	44.1"	47.9"	34.6"	0.0	-60.3"
TRAJ: 600 yds. zero	-1.5"	36.8"	64.2"	78.0"	74.8"	50.3"	0.0
VELOCITY (fps)	1900	1700	1518	1357	1221	1115	1037
ENERGY (ft.-lbs.)	801	642	512	409	331	276	239
TRAJ: 100 yds. zero	-1.5"	0.0	-10.6"	-36.3"	-81.0"	-149.0"	-244.8"
TRAJ: 200 yds. zero	-1.5"	5.3"	0.0	-20.4"	-59.8"	-122.6"	-213.1"
TRAJ: 300 yds. zero	-1.5"	12.1"	13.6"	0.0	-32.6"	-88.6"	-172.3"
TRAJ: 400 yds. zero	-1.5"	20.2"	29.9"	24.4"	0.0	-47.8"	-123.4"
TRAJ: 500 yds. zero	-1.5"	29.8"	49.0"	53.1"	38.3"	0.0	-66.0"
TRAJ: 600 yds. zero	-1.5"	40.8"	71.0"	86.1"	82.3"	55.0"	0.0
VELOCITY (fps)	1800	1609	1436	1286	1165	1073	1006
ENERGY (ft.-lbs.)	719	574	458	367	301	256	225
TRAJ: 100 yds. zero	-1.5"	0.0	-12.0"	-40.9"	-90.9"	-166.5"	-271.6"
TRAJ: 200 yds. zero	-1.5"	6.0"	0.0	-22.9"	-66.9"	-136.5"	-235.7"
TRAJ: 300 yds. zero	-1.5"	13.6"	15.3"	0.0	-36.3"	-98.3"	-189.8"
TRAJ: 400 yds. zero	-1.5"	22.7"	33.4"	27.3"	0.0	-52.9"	-135.3"
TRAJ: 500 yds. zero	-1.5"	33.3"	54.6"	59.0"	42.3"	0.0	-71.9"
TRAJ: 600 yds. zero	-1.5"	45.3"	78.6"	94.9"	90.2"	59.9"	0.0

6.5MM CALIBER (.264" Dia.) 129 GRAIN SPIRE POINT
SECTIONAL DENSITY: .264 BALLISTIC COEFFICIENT: .445

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	3072	2855	2648	2451	2262	2082
ENERGY (ft.-lbs.)	3119	2702	2334	2009	1721	1466	1241
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-8.6"	-20.1"	-37.3"	-61.3"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.4"	-15.7"	-31.8"	-54.7"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.6"	0.0	-8.5"	-22.9"	-44.0"
TRAJ: 400 yds. zero	-1.5"	5.0"	7.8"	6.4"	0.0	-12.2"	-31.2"
TRAJ: 500 yds. zero	-1.5"	7.5"	12.7"	13.7"	9.8"	0.0	-16.6"
TRAJ: 600 yds. zero	-1.5"	10.2"	18.2"	22.0"	20.8"	13.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2977	2765	2562	2369	2184	2007
ENERGY (ft.-lbs.)	2933	2538	2189	1880	1607	1366	1153
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.4"	-21.7"	-40.2"	-66.0"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.8"	-16.8"	-34.1"	-58.7"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.8"	0.0	-9.1"	-24.5"	-47.1"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.4"	6.9"	0.0	-13.1"	-33.4"
TRAJ: 500 yds. zero	-1.5"	8.0"	13.6"	14.7"	10.4"	0.0	-17.7"
TRAJ: 600 yds. zero	-1.5"	11.0"	19.6"	23.6"	22.3"	14.8"	0.0
VELOCITY (fps)	3100	2882	2674	2476	2286	2104	1932
ENERGY (ft.-lbs.)	2752	2379	2048	1755	1497	1268	1068
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.2"	-23.5"	-43.4"	-71.1"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.2"	-18.1"	-36.7"	-63.1"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.1"	0.0	-9.8"	-26.3"	-50.6"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.1"	7.4"	0.0	-14.0"	-35.9"
TRAJ: 500 yds. zero	-1.5"	8.7"	14.7"	15.8"	11.2"	0.0	-19.1"
TRAJ: 600 yds. zero	-1.5"	11.9"	21.0"	25.3"	23.9"	15.9"	0.0
VELOCITY (fps)	3000	2787	2583	2389	2203	2025	1856
ENERGY (ft.-lbs.)	2578	2224	1911	1634	1390	1175	987
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.2"	-25.5"	-47.0"	-76.9"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.7"	-19.5"	-39.5"	-68.0"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.5"	0.0	-10.6"	-28.3"	-54.6"
TRAJ: 400 yds. zero	-1.5"	6.4"	9.8"	7.9"	0.0	-15.1"	-38.7"
TRAJ: 500 yds. zero	-1.5"	9.4"	15.8"	17.0"	12.1"	0.0	-20.6"
TRAJ: 600 yds. zero	-1.5"	12.8"	22.7"	27.3"	25.8"	17.1"	0.0
VELOCITY (fps)	2900	2691	2492	2302	2120	1946	1781
ENERGY (ft.-lbs.)	2409	2075	1779	1517	1287	1084	909
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.2"	-27.7"	-50.9"	-83.4"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.3"	-21.1"	-42.7"	-73.5"
TRAJ: 300 yds. zero	-1.5"	4.1"	4.8"	0.0	-11.4"	-30.6"	-58.9"
TRAJ: 400 yds. zero	-1.5"	6.9"	10.5"	8.6"	0.0	-16.3"	-41.8"
TRAJ: 500 yds. zero	-1.5"	10.2"	17.1"	18.3"	13.0"	0.0	-22.3"
TRAJ: 600 yds. zero	-1.5"	13.9"	24.5"	29.5"	27.9"	18.5"	0.0
VELOCITY (fps)	2800	2596	2401	2214	2036	1867	1707
ENERGY (ft.-lbs.)	2245	1930	1651	1404	1187	998	834
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-13.4"	-30.2"	-55.4"	-90.6"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.9"	-22.8"	-46.2"	-79.6"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.2"	0.0	-12.4"	-33.1"	-63.9"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.4"	9.3"	0.0	-17.7"	-45.3"
TRAJ: 500 yds. zero	-1.5"	11.1"	18.5"	19.9"	14.1"	0.0	-24.1"
TRAJ: 600 yds. zero	-1.5"	15.1"	26.5"	31.9"	30.2"	20.1"	0.0
VELOCITY (fps)	2700	2500	2310	2127	1953	1788	1633
ENERGY (ft.-lbs.)	2088	1791	1528	1296	1092	916	764
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-14.7"	-33.0"	-60.4"	-98.7"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.6"	-24.8"	-50.2"	-86.5"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.7"	0.0	-13.4"	-36.0"	-69.4"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.4"	10.1"	0.0	-19.2"	-49.3"
TRAJ: 500 yds. zero	-1.5"	12.1"	20.1"	21.6"	15.4"	0.0	-26.3"
TRAJ: 600 yds. zero	-1.5"	16.5"	28.8"	34.7"	32.9"	21.9"	0.0
VELOCITY (fps)	2600	2405	2218	2040	1870	1710	1561
ENERGY (ft.-lbs.)	1936	1656	1409	1191	1002	837	698
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.1"	-36.1"	-66.0"	-107.9"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.3"	-27.1"	-54.7"	-94.4"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.2"	0.0	-14.6"	-39.2"	-75.7"
TRAJ: 400 yds. zero	-1.5"	9.0"	13.5"	11.0"	0.0	-20.9"	-53.8"
TRAJ: 500 yds. zero	-1.5"	13.2"	21.9"	23.5"	16.7"	0.0	-28.7"
TRAJ: 600 yds. zero	-1.5"	18.0"	31.5"	37.8"	35.8"	23.9"	0.0
VELOCITY (fps)	2500	2309	2127	1953	1788	1633	1490
ENERGY (ft.-lbs.)	1790	1527	1295	1092	915	764	636
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-17.8"	-39.6"	-72.4"	-118.3"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.2"	-29.6"	-59.8"	-103.2"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.8"	0.0	-16.0"	-42.8"	-82.8"
TRAJ: 400 yds. zero	-1.5"	9.9"	14.8"	12.0"	0.0	-22.9"	-58.8"
TRAJ: 500 yds. zero	-1.5"	14.5"	23.9"	25.7"	18.3"	0.0	-31.4"
TRAJ: 600 yds. zero	-1.5"	19.7"	34.4"	41.4"	39.2"	26.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2400	2213	2035	1866	1706	1557	1422
ENERGY (ft.-lbs.)	1650	1403	1186	997	834	695	579
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-19.6"	-43.7"	-79.7"	-130.1"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.2"	-32.4"	-65.6"	-113.3"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.5"	0.0	-17.5"	-47.0"	-90.8"
TRAJ: 400 yds. zero	-1.5"	10.9"	16.2"	13.1"	0.0	-25.1"	-64.6"
TRAJ: 500 yds. zero	-1.5"	15.9"	26.3"	28.2"	20.1"	0.0	-34.5"
TRAJ: 600 yds. zero	-1.5"	21.7"	37.8"	45.4"	43.1"	28.7"	0.0
VELOCITY (fps)	2300	2118	1944	1780	1626	1484	1356
ENERGY (ft.-lbs.)	1515	1285	1083	907	757	630	526
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-21.7"	-48.2"	-87.9"	-143.5"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.3"	-35.7"	-72.3"	-124.7"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.2"	0.0	-19.2"	-51.7"	-100.0"
TRAJ: 400 yds. zero	-1.5"	12.1"	17.9"	14.4"	0.0	-27.6"	-71.1"
TRAJ: 500 yds. zero	-1.5"	17.6"	28.9"	31.0"	22.1"	0.0	-38.0"
TRAJ: 600 yds. zero	-1.5"	23.9"	41.6"	50.0"	47.4"	31.6"	0.0
VELOCITY (fps)	2200	2022	1854	1695	1547	1412	1293
ENERGY (ft.-lbs.)	1386	1171	984	823	685	571	479
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-24.2"	-53.5"	-97.3"	-158.7"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.6"	-39.4"	-79.8"	-137.7"
TRAJ: 300 yds. zero	-1.5"	8.1"	9.1"	0.0	-21.2"	-57.1"	-110.4"
TRAJ: 400 yds. zero	-1.5"	13.4"	19.7"	15.9"	0.0	-30.5"	-78.5"
TRAJ: 500 yds. zero	-1.5"	19.5"	31.9"	34.2"	24.4"	0.0	-41.9"
TRAJ: 600 yds. zero	-1.5"	26.5"	45.9"	55.2"	52.4"	34.9"	0.0
VELOCITY (fps)	2100	1927	1764	1611	1470	1344	1234
ENERGY (ft.-lbs.)	1263	1064	891	743	619	517	436
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-27.0"	-59.5"	-108.1"	-176.1"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-15.1"	-43.7"	-88.4"	-152.5"
TRAJ: 300 yds. zero	-1.5"	9.0"	10.1"	0.0	-23.5"	-63.2"	-122.2"
TRAJ: 400 yds. zero	-1.5"	14.9"	21.9"	17.6"	0.0	-33.8"	-86.9"
TRAJ: 500 yds. zero	-1.5"	21.6"	35.4"	37.9"	27.0"	0.0	-46.4"
TRAJ: 600 yds. zero	-1.5"	29.4"	50.8"	61.1"	57.9"	38.6"	0.0
VELOCITY (fps)	2000	1832	1675	1529	1396	1279	1180
ENERGY (ft.-lbs.)	1146	962	803	669	558	468	399
TRAJ: 100 yds. zero	-1.5"	0.0	-8.9"	-30.2"	-66.4"	-120.5"	-196.0"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-16.9"	-48.6"	-98.3"	-169.3"
TRAJ: 300 yds. zero	-1.5"	10.1"	11.2"	0.0	-26.2"	-70.2"	-135.6"
TRAJ: 400 yds. zero	-1.5"	16.6"	24.3"	19.6"	0.0	-37.5"	-96.4"
TRAJ: 500 yds. zero	-1.5"	24.1"	39.3"	42.1"	30.0"	0.0	-51.4"
TRAJ: 600 yds. zero	-1.5"	32.7"	56.4"	67.8"	64.2"	42.8"	0.0
VELOCITY (fps)	1900	1738	1587	1449	1325	1218	1131
ENERGY (ft.-lbs.)	1034	865	721	601	502	425	366
TRAJ: 100 yds. zero	-1.5"	0.0	-10.0"	-33.9"	-74.4"	-134.7"	-218.6"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-18.8"	-54.3"	-109.6"	-188.5"
TRAJ: 300 yds. zero	-1.5"	11.3"	12.6"	0.0	-29.2"	-78.2"	-150.8"
TRAJ: 400 yds. zero	-1.5"	18.6"	27.2"	21.9"	0.0	-41.8"	-107.0"
TRAJ: 500 yds. zero	-1.5"	26.9"	43.9"	46.9"	33.4"	0.0	-56.9"
TRAJ: 600 yds. zero	-1.5"	36.4"	62.8"	75.4"	71.3"	47.4"	0.0
VELOCITY (fps)	1800	1645	1501	1371	1257	1162	1087
ENERGY (ft.-lbs.)	928	775	645	538	453	387	339
TRAJ: 100 yds. zero	-1.5"	0.0	-11.4"	-38.2"	-83.6"	-151.0"	-244.2"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-21.2"	-60.8"	-122.6"	-210.1"
TRAJ: 300 yds. zero	-1.5"	12.7"	14.1"	0.0	-32.6"	-87.3"	-167.7"
TRAJ: 400 yds. zero	-1.5"	20.9"	30.4"	24.5"	0.0	-46.5"	-118.8"
TRAJ: 500 yds. zero	-1.5"	30.2"	49.0"	52.4"	37.2"	0.0	-63.0"
TRAJ: 600 yds. zero	-1.5"	40.7"	70.0"	83.9"	79.2"	52.5"	0.0
VELOCITY (fps)	1700	1552	1417	1297	1195	1112	1049
ENERGY (ft.-lbs.)	828	690	575	481	409	354	315
TRAJ: 100 yds. zero	-1.5"	0.0	-13.0"	-43.3"	-94.3"	-169.7"	-273.0"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-23.8"	-68.4"	-137.3"	-234.1"
TRAJ: 300 yds. zero	-1.5"	14.4"	15.9"	0.0	-36.6"	-97.6"	-186.4"
TRAJ: 400 yds. zero	-1.5"	23.6"	34.2"	27.5"	0.0	-51.8"	-131.5"
TRAJ: 500 yds. zero	-1.5"	33.9"	54.9"	58.5"	41.5"	0.0	-69.3"
TRAJ: 600 yds. zero	-1.5"	45.5"	78.0"	93.2"	87.7"	57.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1600	1460	1335	1226	1138	1068	1014
ENERGY (ft.-lbs.)	733	611	510	431	371	327	294
TRAJ: 100 yds. zero	-1.5"	0.0	-14.8"	-49.2"	-106.7"	-191.0"	-305.2"
TRAJ: 200 yds. zero	-1.5"	7.4"	0.0	-27.0"	-77.0"	-153.9"	-260.8"
TRAJ: 300 yds. zero	-1.5"	16.4"	18.0"	0.0	-41.1"	-109.0"	-206.8"
TRAJ: 400 yds. zero	-1.5"	26.7"	38.5"	30.8"	0.0	-67.6"	-145.2"
TRAJ: 500 yds. zero	-1.5"	38.2"	61.6"	65.4"	46.1"	0.0	-76.1"
TRAJ: 600 yds. zero	-1.5"	50.9"	86.9"	103.4"	96.8"	63.4"	0.0

6.5MM CALIBER (.264" Dia.) 140 GRAIN SPIRE POINT
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .465

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2986	2783	2588	2401	2223	2052
ENERGY (ft.-lbs.)	3183	2772	2406	2082	1792	1536	1308
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.3"	-21.4"	-39.5"	-64.7"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.7"	-16.6"	-33.5"	-57.5"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.8"	0.0	-9.0"	-24.0"	-46.1"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.3"	6.7"	0.0	-12.8"	-32.6"
TRAJ: 500 yds. zero	-1.5"	7.9"	13.4"	14.4"	10.2"	0.0	-17.3"
TRAJ: 600 yds. zero	-1.5"	10.8"	19.2"	23.0"	21.7"	14.4"	0.0
VELOCITY (fps)	3100	2891	2692	2501	2318	2143	1975
ENERGY (ft.-lbs.)	2987	2598	2252	1944	1670	1427	1213
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.1"	-23.2"	-42.7"	-69.8"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.1"	-17.8"	-36.0"	-61.8"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.1"	0.0	-9.7"	-25.8"	-49.5"
TRAJ: 400 yds. zero	-1.5"	5.8"	8.9"	7.2"	0.0	-13.7"	-35.0"
TRAJ: 500 yds. zero	-1.5"	8.5"	14.4"	15.5"	11.0"	0.0	-18.6"
TRAJ: 600 yds. zero	-1.5"	11.6"	20.6"	24.7"	23.3"	15.5"	0.0
VELOCITY (fps)	3000	2796	2601	2414	2234	2063	1899
ENERGY (ft.-lbs.)	2797	2429	2102	1811	1552	1322	1121
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.1"	-25.1"	-46.2"	-75.4"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.6"	-19.2"	-38.8"	-66.5"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.4"	0.0	-10.4"	-27.8"	-53.3"
TRAJ: 400 yds. zero	-1.5"	6.3"	9.6"	7.8"	0.0	-14.8"	-37.7"
TRAJ: 500 yds. zero	-1.5"	9.2"	15.5"	16.7"	11.8"	0.0	-20.0"
TRAJ: 600 yds. zero	-1.5"	12.6"	22.2"	26.6"	25.1"	16.7"	0.0
VELOCITY (fps)	2900	2700	2509	2326	2150	1982	1823
ENERGY (ft.-lbs.)	2614	2266	1957	1681	1437	1222	1033
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.1"	-27.3"	-50.1"	-81.7"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.2"	-20.8"	-41.9"	-71.9"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.2"	-30.0"	-57.6"
TRAJ: 400 yds. zero	-1.5"	6.8"	10.4"	8.4"	0.0	-15.9"	-40.7"
TRAJ: 500 yds. zero	-1.5"	10.0"	16.8"	18.0"	12.8"	0.0	-21.6"
TRAJ: 600 yds. zero	-1.5"	13.6"	24.0"	28.8"	27.2"	18.0"	0.0
VELOCITY (fps)	2800	2605	2417	2238	2066	1902	1747
ENERGY (ft.-lbs.)	2437	2109	1816	1557	1327	1125	949
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.2"	-29.8"	-54.5"	-88.8"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.8"	-22.5"	-45.4"	-77.9"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.2"	0.0	-12.1"	-32.4"	-62.3"
TRAJ: 400 yds. zero	-1.5"	7.4"	11.2"	9.1"	0.0	-17.3"	-44.1"
TRAJ: 500 yds. zero	-1.5"	10.9"	18.1"	19.5"	13.8"	0.0	-23.4"
TRAJ: 600 yds. zero	-1.5"	14.8"	26.0"	31.2"	29.4"	19.5"	0.0
VELOCITY (fps)	2700	2509	2326	2150	1982	1823	1672
ENERGY (ft.-lbs.)	2266	1956	1681	1437	1221	1033	869
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.5"	-32.5"	-59.4"	-96.7"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.5"	-24.4"	-49.3"	-84.6"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.6"	0.0	-13.2"	-35.2"	-67.7"
TRAJ: 400 yds. zero	-1.5"	8.1"	12.2"	9.9"	0.0	-18.7"	-48.0"
TRAJ: 500 yds. zero	-1.5"	11.9"	19.7"	21.1"	15.0"	0.0	-25.5"
TRAJ: 600 yds. zero	-1.5"	16.1"	28.2"	33.9"	32.0"	21.2"	0.0
VELOCITY (fps)	2600	2413	2234	2062	1899	1744	1598
ENERGY (ft.-lbs.)	2101	1810	1551	1322	1120	945	794
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-15.9"	-35.6"	-64.9"	-105.7"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.2"	-26.6"	-53.7"	-92.2"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.1"	0.0	-14.3"	-38.3"	-73.8"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.3"	10.8"	0.0	-20.4"	-52.3"
TRAJ: 500 yds. zero	-1.5"	13.0"	21.5"	23.0"	16.3"	0.0	-27.8"
TRAJ: 600 yds. zero	-1.5"	17.6"	30.7"	36.9"	34.9"	23.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2500	2317	2142	1974	1815	1665	1526
ENERGY (ft.-lbs.)	1943	1669	1426	1212	1024	862	724
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-17.6"	-39.1"	-71.2"	-115.8"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.1"	-29.1"	-58.7"	-100.9"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.7"	0.0	-15.7"	-41.9"	-80.7"
TRAJ: 400 yds. zero	-1.5"	9.8"	14.6"	11.7"	0.0	-22.3"	-57.2"
TRAJ: 500 yds. zero	-1.5"	14.2"	23.5"	25.1"	17.9"	0.0	-30.4"
TRAJ: 600 yds. zero	-1.5"	19.3"	33.6"	40.4"	38.1"	25.4"	0.0
VELOCITY (fps)	2400	2221	2050	1887	1733	1588	1455
ENERGY (ft.-lbs.)	1790	1534	1306	1107	933	784	658
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-19.4"	-43.0"	-78.3"	-127.3"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.1"	-31.9"	-64.4"	-110.7"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.4"	0.0	-17.2"	-45.9"	-88.5"
TRAJ: 400 yds. zero	-1.5"	10.8"	16.0"	12.9"	0.0	-24.5"	-62.8"
TRAJ: 500 yds. zero	-1.5"	15.7"	25.7"	27.6"	19.6"	0.0	-33.4"
TRAJ: 600 yds. zero	-1.5"	21.2"	36.9"	44.3"	41.9"	27.8"	0.0
VELOCITY (fps)	2300	2126	1959	1800	1651	1513	1387
ENERGY (ft.-lbs.)	1644	1404	1193	1008	848	712	598
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-21.5"	-47.5"	-86.4"	-140.4"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.2"	-35.1"	-70.8"	-121.8"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.1"	0.0	-18.9"	-50.5"	-97.4"
TRAJ: 400 yds. zero	-1.5"	11.9"	17.6"	14.2"	0.0	-26.9"	-69.1"
TRAJ: 500 yds. zero	-1.5"	17.3"	28.3"	30.3"	21.6"	0.0	-36.8"
TRAJ: 600 yds. zero	-1.5"	23.4"	40.6"	48.7"	46.1"	30.7"	0.0
VELOCITY (fps)	2200	2030	1868	1715	1572	1440	1322
ENERGY (ft.-lbs.)	1504	1281	1084	914	768	645	543
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-23.9"	-52.7"	-95.6"	-155.3"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.5"	-38.8"	-78.2"	-134.5"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.0"	0.0	-20.8"	-55.8"	-107.6"
TRAJ: 400 yds. zero	-1.5"	13.2"	19.4"	15.6"	0.0	-29.7"	-76.3"
TRAJ: 500 yds. zero	-1.5"	19.1"	31.3"	33.5"	23.8"	0.0	-40.6"
TRAJ: 600 yds. zero	-1.5"	25.9"	44.8"	53.8"	50.9"	33.9"	0.0
VELOCITY (fps)	2100	1935	1778	1630	1493	1370	1260
ENERGY (ft.-lbs.)	1371	1163	982	826	693	583	494
TRAJ: 100 yds. zero	-1.5"	0.0	-7.8"	-26.6"	-58.6"	-106.2"	-172.4"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-14.9"	-43.0"	-86.7"	-148.9"
TRAJ: 300 yds. zero	-1.5"	8.9"	10.0"	0.0	-23.1"	-61.8"	-119.1"
TRAJ: 400 yds. zero	-1.5"	14.6"	21.5"	17.3"	0.0	-32.9"	-84.5"
TRAJ: 500 yds. zero	-1.5"	21.2"	34.7"	37.1"	26.3"	0.0	-45.0"
TRAJ: 600 yds. zero	-1.5"	28.7"	49.6"	59.5"	56.3"	37.5"	0.0
VELOCITY (fps)	2000	1839	1688	1547	1418	1302	1203
ENERGY (ft.-lbs.)	1243	1052	886	744	625	527	450
TRAJ: 100 yds. zero	-1.5"	0.0	-8.8"	-29.8"	-65.4"	-118.3"	-191.9"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-16.6"	-47.8"	-96.3"	-165.5"
TRAJ: 300 yds. zero	-1.5"	9.9"	11.1"	0.0	-25.6"	-68.6"	-132.2"
TRAJ: 400 yds. zero	-1.5"	16.3"	23.9"	19.2"	0.0	-36.6"	-93.8"
TRAJ: 500 yds. zero	-1.5"	23.7"	38.5"	41.2"	29.3"	0.0	-49.9"
TRAJ: 600 yds. zero	-1.5"	32.0"	55.2"	66.1"	62.5"	41.5"	0.0
VELOCITY (fps)	1900	1745	1600	1466	1345	1239	1151
ENERGY (ft.-lbs.)	1122	946	795	668	562	477	412
TRAJ: 100 yds. zero	-1.5"	0.0	-9.9"	-33.5"	-73.3"	-132.3"	-214.1"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-18.6"	-53.4"	-107.5"	-184.3"
TRAJ: 300 yds. zero	-1.5"	11.2"	12.4"	0.0	-28.6"	-76.5"	-147.1"
TRAJ: 400 yds. zero	-1.5"	18.3"	26.7"	21.5"	0.0	-40.7"	-104.2"
TRAJ: 500 yds. zero	-1.5"	26.5"	43.0"	45.9"	32.6"	0.0	-55.3"
TRAJ: 600 yds. zero	-1.5"	35.7"	61.4"	73.5"	69.4"	46.1"	0.0
VELOCITY (fps)	1800	1651	1513	1387	1275	1181	1105
ENERGY (ft.-lbs.)	1007	847	711	598	506	433	379
TRAJ: 100 yds. zero	-1.5"	0.0	-11.3"	-37.8"	-82.4"	-148.4"	-239.4"
TRAJ: 200 yds. zero	-1.5"	5.6"	0.0	-20.9"	-59.8"	-120.2"	-205.6"
TRAJ: 300 yds. zero	-1.5"	12.6"	13.9"	0.0	-32.0"	-85.4"	-163.8"
TRAJ: 400 yds. zero	-1.5"	20.6"	29.9"	24.0"	0.0	-45.4"	-115.8"
TRAJ: 500 yds. zero	-1.5"	29.7"	48.1"	51.3"	36.3"	0.0	-61.3"
TRAJ: 600 yds. zero	-1.5"	39.9"	68.5"	81.9"	77.2"	51.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1558	1428	1311	1211	1128	1064
ENERGY (ft.-lbs.)	898	754	634	534	456	396	352
TRAJ: 100 yds. zero	-1.5"	0.0	-12.8"	-42.8"	-93.0"	-166.9"	-268.0"
TRAJ: 200 yds. zero	-1.5"	6.4"	0.0	-23.5"	-67.3"	-134.8"	-229.5"
TRAJ: 300 yds. zero	-1.5"	14.3"	15.7"	0.0	-35.9"	-95.6"	-182.4"
TRAJ: 400 yds. zero	-1.5"	23.2"	33.6"	26.9"	0.0	-50.7"	-128.6"
TRAJ: 500 yds. zero	-1.5"	33.4"	53.9"	57.4"	40.6"	0.0	-67.7"
TRAJ: 600 yds. zero	-1.5"	44.7"	76.5"	91.2"	85.7"	56.4"	0.0
VELOCITY (fps)	1600	1466	1345	1239	1151	1082	1027
ENERGY (ft.-lbs.)	796	668	562	477	412	364	328
TRAJ: 100 yds. zero	-1.5"	0.0	-14.7"	-48.6"	-105.2"	-188.0"	-300.1"
TRAJ: 200 yds. zero	-1.5"	7.3"	0.0	-26.6"	-75.8"	-151.2"	-256.0"
TRAJ: 300 yds. zero	-1.5"	16.2"	17.7"	0.0	-40.4"	-106.9"	-202.8"
TRAJ: 400 yds. zero	-1.5"	26.3"	37.9"	30.3"	0.0	-56.5"	-142.3"
TRAJ: 500 yds. zero	-1.5"	37.6"	60.5"	64.2"	45.2"	0.0	-74.5"
TRAJ: 600 yds. zero	-1.5"	50.0"	85.3"	101.4"	94.9"	62.1"	0.0
VELOCITY (fps)	1500	1375	1266	1173	1098	1040	993
ENERGY (ft.-lbs.)	699	588	498	427	375	336	306
TRAJ: 100 yds. zero	-1.5"	0.0	-16.9"	-55.5"	-119.4"	-211.8"	-335.9"
TRAJ: 200 yds. zero	-1.5"	8.4"	0.0	-30.2"	-85.6"	-169.6"	-285.2"
TRAJ: 300 yds. zero	-1.5"	18.5"	20.1"	0.0	-45.4"	-119.3"	-224.9"
TRAJ: 400 yds. zero	-1.5"	29.8"	42.8"	34.0"	0.0	-62.6"	-156.9"
TRAJ: 500 yds. zero	-1.5"	42.4"	67.8"	71.6"	50.1"	0.0	-81.7"
TRAJ: 600 yds. zero	-1.5"	56.0"	95.1"	112.5"	104.6"	68.1"	0.0

6.5MM CALIBER (.264" Dia.) 140 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .484

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2994	2798	2610	2430	2257	2091
ENERGY (ft.-lbs.)	3183	2787	2434	2118	1836	1584	1359
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.2"	-21.1"	-39.0"	-63.6"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.6"	-16.4"	-33.0"	-56.5"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.8"	0.0	-8.9"	-23.6"	-45.2"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.2"	6.6"	0.0	-12.5"	-31.9"
TRAJ: 500 yds. zero	-1.5"	7.8"	13.2"	14.2"	10.0"	0.0	-16.9"
TRAJ: 600 yds. zero	-1.5"	10.6"	18.8"	22.6"	21.3"	14.0"	0.0
VELOCITY (fps)	3100	2899	2707	2523	2346	2177	2014
ENERGY (ft.-lbs.)	2987	2612	2278	1978	1711	1473	1261
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.0"	-22.9"	-42.1"	-68.6"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.1"	-17.6"	-35.5"	-60.7"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.0"	0.0	-9.5"	-25.3"	-48.5"
TRAJ: 400 yds. zero	-1.5"	5.7"	8.8"	7.1"	0.0	-13.5"	-34.3"
TRAJ: 500 yds. zero	-1.5"	8.4"	14.2"	15.2"	10.8"	0.0	-18.1"
TRAJ: 600 yds. zero	-1.5"	11.4"	20.2"	24.3"	22.8"	15.1"	0.0
VELOCITY (fps)	3000	2804	2616	2435	2262	2096	1937
ENERGY (ft.-lbs.)	2797	2443	2126	1843	1590	1365	1166
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-10.9"	-24.8"	-45.5"	-74.1"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.6"	-19.0"	-38.2"	-65.3"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.4"	0.0	-10.2"	-27.3"	-52.2"
TRAJ: 400 yds. zero	-1.5"	6.2"	9.5"	7.7"	0.0	-14.5"	-36.9"
TRAJ: 500 yds. zero	-1.5"	9.1"	15.3"	16.4"	11.6"	0.0	-19.5"
TRAJ: 600 yds. zero	-1.5"	12.4"	21.8"	26.1"	24.6"	16.3"	0.0
VELOCITY (fps)	2900	2708	2524	2347	2177	2015	1860
ENERGY (ft.-lbs.)	2614	2279	1980	1712	1474	1262	1075
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.0"	-27.0"	-49.4"	-80.3"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.1"	-20.5"	-41.2"	-70.6"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.7"	0.0	-11.0"	-29.4"	-56.4"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.2"	8.3"	0.0	-15.6"	-39.8"
TRAJ: 500 yds. zero	-1.5"	9.9"	16.5"	17.7"	12.5"	0.0	-21.1"
TRAJ: 600 yds. zero	-1.5"	13.4"	23.5"	28.2"	26.6"	17.6"	0.0
VELOCITY (fps)	2800	2612	2432	2259	2093	1934	1783
ENERGY (ft.-lbs.)	2437	2121	1838	1586	1361	1162	988
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.1"	-29.4"	-53.7"	-87.2"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.7"	-22.2"	-44.7"	-76.4"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.1"	0.0	-11.9"	-31.8"	-61.1"
TRAJ: 400 yds. zero	-1.5"	7.3"	11.1"	9.0"	0.0	-16.9"	-43.1"
TRAJ: 500 yds. zero	-1.5"	10.7"	17.9"	19.1"	13.5"	0.0	-22.8"
TRAJ: 600 yds. zero	-1.5"	14.5"	25.5"	30.5"	28.8"	19.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2516	2340	2170	2008	1853	1707
ENERGY (ft.-lbs.)	2266	1968	1702	1464	1253	1068	905
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.4"	-32.1"	-58.5"	-95.0"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.4"	-24.1"	-48.5"	-83.0"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.6"	0.0	-13.0"	-34.6"	-66.3"
TRAJ: 400 yds. zero	-1.5"	8.0"	12.1"	9.7"	0.0	-18.4"	-46.9"
TRAJ: 500 yds. zero	-1.5"	11.7"	19.4"	20.7"	14.7"	0.0	-24.8"
TRAJ: 600 yds. zero	-1.5"	15.8"	27.7"	33.2"	31.2"	20.7"	0.0
VELOCITY (fps)	2600	2420	2248	2082	1924	1773	1632
ENERGY (ft.-lbs.)	2101	1821	1570	1347	1150	977	827
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-15.8"	-35.1"	-63.9"	-103.8"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.1"	-26.3"	-52.8"	-90.5"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.1"	0.0	-14.1"	-37.6"	-72.2"
TRAJ: 400 yds. zero	-1.5"	8.8"	13.1"	10.6"	0.0	-20.0"	-51.1"
TRAJ: 500 yds. zero	-1.5"	12.8"	21.1"	22.6"	16.0"	0.0	-27.1"
TRAJ: 600 yds. zero	-1.5"	17.3"	30.2"	36.1"	34.1"	22.6"	0.0
VELOCITY (fps)	2500	2324	2155	1994	1840	1694	1558
ENERGY (ft.-lbs.)	1943	1679	1444	1236	1052	892	754
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-17.4"	-38.6"	-70.1"	-113.7"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.0"	-28.7"	-57.7"	-98.9"
TRAJ: 300 yds. zero	-1.5"	5.8"	6.6"	0.0	-15.4"	-41.1"	-79.0"
TRAJ: 400 yds. zero	-1.5"	9.6"	14.3"	11.6"	0.0	-21.9"	-55.9"
TRAJ: 500 yds. zero	-1.5"	14.0"	23.1"	24.7"	17.5"	0.0	-29.6"
TRAJ: 600 yds. zero	-1.5"	19.0"	33.0"	39.5"	37.2"	24.7"	0.0
VELOCITY (fps)	2400	2228	2063	1906	1756	1616	1486
ENERGY (ft.-lbs.)	1790	1543	1323	1129	959	812	686
TRAJ: 100 yds. zero	-1.5"	0.0	-5.5"	-19.2"	-42.5"	-77.1"	-125.0"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-10.9"	-31.5"	-63.3"	-108.5"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.3"	0.0	-16.9"	-45.1"	-86.6"
TRAJ: 400 yds. zero	-1.5"	10.6"	15.7"	12.7"	0.0	-24.0"	-61.3"
TRAJ: 500 yds. zero	-1.5"	15.4"	25.3"	27.0"	19.2"	0.0	-32.5"
TRAJ: 600 yds. zero	-1.5"	20.8"	36.2"	43.3"	40.8"	27.1"	0.0
VELOCITY (fps)	2300	2132	1972	1819	1674	1539	1416
ENERGY (ft.-lbs.)	1644	1413	1208	1028	871	737	623
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-21.3"	-46.9"	-85.0"	-137.8"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.0"	-34.6"	-69.6"	-119.3"
TRAJ: 300 yds. zero	-1.5"	7.1"	8.0"	0.0	-18.6"	-49.6"	-95.3"
TRAJ: 400 yds. zero	-1.5"	11.7"	17.3"	13.9"	0.0	-26.4"	-67.4"
TRAJ: 500 yds. zero	-1.5"	17.0"	27.8"	29.7"	21.1"	0.0	-35.8"
TRAJ: 600 yds. zero	-1.5"	23.0"	39.8"	47.6"	45.0"	29.8"	0.0
VELOCITY (fps)	2200	2036	1880	1732	1593	1465	1348
ENERGY (ft.-lbs.)	1504	1289	1099	933	789	667	565
TRAJ: 100 yds. zero	-1.5"	0.0	-6.9"	-23.6"	-52.0"	-94.1"	-152.4"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-13.3"	-38.2"	-76.9"	-131.8"
TRAJ: 300 yds. zero	-1.5"	7.9"	8.9"	0.0	-20.5"	-54.7"	-105.2"
TRAJ: 400 yds. zero	-1.5"	13.0"	19.1"	15.4"	0.0	-29.1"	-74.4"
TRAJ: 500 yds. zero	-1.5"	18.8"	30.7"	32.8"	23.3"	0.0	-39.5"
TRAJ: 600 yds. zero	-1.5"	25.4"	43.9"	52.6"	49.6"	32.9"	0.0
VELOCITY (fps)	2100	1941	1790	1647	1514	1393	1285
ENERGY (ft.-lbs.)	1371	1171	995	843	713	603	513
TRAJ: 100 yds. zero	-1.5"	0.0	-7.7"	-26.4"	-57.8"	-104.5"	-169.2"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-14.7"	-42.3"	-85.2"	-145.9"
TRAJ: 300 yds. zero	-1.5"	8.8"	9.8"	0.0	-22.7"	-60.6"	-116.4"
TRAJ: 400 yds. zero	-1.5"	14.5"	21.2"	17.0"	0.0	-32.2"	-82.4"
TRAJ: 500 yds. zero	-1.5"	20.9"	34.1"	36.3"	25.8"	0.0	-43.8"
TRAJ: 600 yds. zero	-1.5"	28.2"	48.6"	58.2"	55.0"	36.5"	0.0
VELOCITY (fps)	2000	1846	1700	1563	1437	1324	1225
ENERGY (ft.-lbs.)	1243	1059	898	759	642	545	466
TRAJ: 100 yds. zero	-1.5"	0.0	-8.7"	-29.5"	-64.6"	-116.5"	-188.3"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-16.4"	-47.1"	-94.7"	-162.1"
TRAJ: 300 yds. zero	-1.5"	9.8"	10.9"	0.0	-25.2"	-67.3"	-129.3"
TRAJ: 400 yds. zero	-1.5"	16.1"	23.6"	18.9"	0.0	-35.8"	-91.5"
TRAJ: 500 yds. zero	-1.5"	23.3"	37.9"	40.4"	28.6"	0.0	-48.5"
TRAJ: 600 yds. zero	-1.5"	31.4"	54.0"	64.7"	61.0"	40.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1900	1751	1611	1481	1363	1259	1170
ENERGY (ft.-lbs.)	1122	953	806	682	577	492	426
TRAJ: 100 yds. zero	-1.5"	0.0	-9.9"	-33.1"	-72.3"	-130.3"	-210.2"
TRAJ: 200 yds. zero	-1.5"	4.9"	0.0	-18.4"	-52.6"	-105.6"	-180.6"
TRAJ: 300 yds. zero	-1.5"	11.0"	12.2"	0.0	-28.1"	-75.0"	-143.9"
TRAJ: 400 yds. zero	-1.5"	18.1"	26.3"	21.1"	0.0	-39.9"	-101.7"
TRAJ: 500 yds. zero	-1.5"	26.1"	42.2"	45.0"	31.9"	0.0	-53.9"
TRAJ: 600 yds. zero	-1.5"	35.0"	60.2"	72.0"	67.8"	44.9"	0.0
VELOCITY (fps)	1800	1657	1523	1401	1292	1198	1121
ENERGY (ft.-lbs.)	1007	853	721	610	519	446	391
TRAJ: 100 yds. zero	-1.5"	0.0	-11.2"	-37.4"	-81.3"	-146.2"	-235.2"
TRAJ: 200 yds. zero	-1.5"	5.6"	0.0	-20.6"	-59.0"	-118.2"	-201.6"
TRAJ: 300 yds. zero	-1.5"	12.5"	13.7"	0.0	-31.5"	-83.8"	-160.4"
TRAJ: 400 yds. zero	-1.5"	20.3"	29.5"	23.6"	0.0	-44.5"	-113.2"
TRAJ: 500 yds. zero	-1.5"	29.2"	47.3"	50.3"	35.6"	0.0	-59.8"
TRAJ: 600 yds. zero	-1.5"	39.2"	67.2"	80.2"	75.5"	49.9"	0.0
VELOCITY (fps)	1700	1563	1437	1324	1225	1143	1077
ENERGY (ft.-lbs.)	898	760	642	545	467	406	361
TRAJ: 100 yds. zero	-1.5"	0.0	-12.7"	-42.3"	-91.8"	-164.4"	-263.6"
TRAJ: 200 yds. zero	-1.5"	6.4"	0.0	-23.2"	-66.3"	-132.6"	-225.4"
TRAJ: 300 yds. zero	-1.5"	14.1"	15.5"	0.0	-35.3"	-93.9"	-178.9"
TRAJ: 400 yds. zero	-1.5"	23.0"	33.2"	26.5"	0.0	-49.7"	-125.9"
TRAJ: 500 yds. zero	-1.5"	32.9"	53.0"	56.3"	39.7"	0.0	-66.3"
TRAJ: 600 yds. zero	-1.5"	43.9"	75.1"	89.5"	83.9"	55.2"	0.0
VELOCITY (fps)	1600	1471	1354	1251	1164	1094	1039
ENERGY (ft.-lbs.)	796	673	570	486	421	372	335
TRAJ: 100 yds. zero	-1.5"	0.0	-14.6"	-48.2"	-104.0"	-185.4"	-295.6"
TRAJ: 200 yds. zero	-1.5"	7.3"	0.0	-26.3"	-74.8"	-148.9"	-251.8"
TRAJ: 300 yds. zero	-1.5"	16.1"	17.5"	0.0	-39.7"	-105.1"	-199.3"
TRAJ: 400 yds. zero	-1.5"	26.0"	37.4"	29.8"	0.0	-55.5"	-139.7"
TRAJ: 500 yds. zero	-1.5"	37.1"	59.6"	63.1"	44.4"	0.0	-73.1"
TRAJ: 600 yds. zero	-1.5"	49.3"	83.9"	99.6"	93.1"	60.9"	0.0
VELOCITY (fps)	1500	1380	1274	1183	1109	1050	1003
ENERGY (ft.-lbs.)	699	592	504	435	382	343	313
TRAJ: 100 yds. zero	-1.5"	0.0	-16.8"	-55.0"	-118.0"	-209.2"	-331.4"
TRAJ: 200 yds. zero	-1.5"	8.4"	0.0	-29.8"	-84.5"	-167.2"	-281.1"
TRAJ: 300 yds. zero	-1.5"	18.3"	19.9"	0.0	-44.7"	-117.5"	-221.4"
TRAJ: 400 yds. zero	-1.5"	29.5"	42.2"	33.5"	0.0	-61.6"	-154.4"
TRAJ: 500 yds. zero	-1.5"	41.8"	66.9"	70.5"	49.3"	0.0	-80.4"
TRAJ: 600 yds. zero	-1.5"	55.2"	93.7"	110.7"	102.9"	67.0"	0.0

6.5MM CALIBER (.264" Dia.) 160 GRAIN ROUND NOSE

SECTIONAL DENSITY: .328 BALLISTIC COEFFICIENT: .283

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2576	2275	1994	1736	1504	1306
ENERGY (ft.-lbs.)	2987	2358	1838	1412	1070	803	606
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.3"	-33.6"	-64.6"	-111.1"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.6"	-26.1"	-55.2"	-99.8"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.8"	0.0	-14.6"	-40.8"	-82.5"
TRAJ: 400 yds. zero	-1.5"	8.4"	13.0"	10.9"	0.0	-22.6"	-60.7"
TRAJ: 500 yds. zero	-1.5"	12.9"	22.1"	24.5"	18.1"	0.0	-33.6"
TRAJ: 600 yds. zero	-1.5"	18.5"	33.3"	41.3"	40.5"	28.0"	0.0
VELOCITY (fps)	2800	2483	2188	1914	1663	1440	1255
ENERGY (ft.-lbs.)	2785	2191	1701	1301	982	737	559
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.6"	-36.7"	-70.4"	-121.1"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.4"	-28.3"	-60.0"	-108.6"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.3"	0.0	-15.8"	-44.3"	-89.8"
TRAJ: 400 yds. zero	-1.5"	9.2"	14.2"	11.9"	0.0	-24.6"	-66.1"
TRAJ: 500 yds. zero	-1.5"	14.1"	24.0"	26.6"	19.6"	0.0	-36.6"
TRAJ: 600 yds. zero	-1.5"	20.2"	36.2"	44.9"	44.1"	30.5"	0.0
VELOCITY (fps)	2700	2390	2101	1834	1591	1379	1206
ENERGY (ft.-lbs.)	2589	2029	1568	1194	899	675	517
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-17.2"	-40.1"	-77.0"	-132.3"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.2"	-30.9"	-65.4"	-118.4"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.8"	0.0	-17.2"	-48.4"	-98.0"
TRAJ: 400 yds. zero	-1.5"	10.0"	15.4"	12.9"	0.0	-26.8"	-72.1"
TRAJ: 500 yds. zero	-1.5"	15.4"	26.2"	29.0"	21.4"	0.0	-40.0"
TRAJ: 600 yds. zero	-1.5"	22.1"	39.5"	49.0"	48.1"	33.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2600	2297	2015	1754	1520	1320	1162
ENERGY (ft.-lbs.)	2401	1874	1442	1093	821	619	479
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-18.9"	-44.0"	-84.4"	-144.9"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.2"	-33.8"	-71.5"	-129.5"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.5"	0.0	-18.8"	-52.9"	-107.1"
TRAJ: 400 yds. zero	-1.5"	11.0"	16.9"	14.1"	0.0	-29.3"	-78.8"
TRAJ: 500 yds. zero	-1.5"	16.9"	28.6"	31.7"	23.5"	0.0	-43.6"
TRAJ: 600 yds. zero	-1.5"	24.1"	43.2"	53.6"	52.6"	36.4"	0.0
VELOCITY (fps)	2500	2204	1928	1676	1452	1264	1121
ENERGY (ft.-lbs.)	2220	1725	1320	997	748	567	447
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-20.8"	-48.4"	-92.7"	-158.9"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.3"	-37.0"	-78.4"	-141.8"
TRAJ: 300 yds. zero	-1.5"	6.9"	8.2"	0.0	-20.7"	-58.0"	-117.3"
TRAJ: 400 yds. zero	-1.5"	12.1"	18.5"	15.5"	0.0	-32.2"	-86.3"
TRAJ: 500 yds. zero	-1.5"	18.5"	31.4"	34.8"	25.7"	0.0	-47.7"
TRAJ: 600 yds. zero	-1.5"	26.5"	47.3"	58.6"	57.5"	39.8"	0.0
VELOCITY (fps)	2400	2110	1842	1598	1385	1211	1085
ENERGY (ft.-lbs.)	2046	1582	1205	907	681	521	418
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-23.0"	-53.4"	-102.1"	-174.6"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.5"	-40.7"	-86.2"	-155.6"
TRAJ: 300 yds. zero	-1.5"	7.7"	9.0"	0.0	-22.7"	-63.7"	-128.6"
TRAJ: 400 yds. zero	-1.5"	13.4"	20.4"	17.0"	0.0	-35.3"	-94.5"
TRAJ: 500 yds. zero	-1.5"	20.4"	34.5"	38.2"	28.3"	0.0	-52.1"
TRAJ: 600 yds. zero	-1.5"	29.1"	51.9"	64.3"	63.0"	43.4"	0.0
VELOCITY (fps)	2300	2017	1757	1523	1322	1163	1053
ENERGY (ft.-lbs.)	1879	1446	1096	823	620	481	394
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-25.5"	-59.1"	-112.7"	-192.0"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-14.9"	-44.9"	-95.0"	-170.7"
TRAJ: 300 yds. zero	-1.5"	8.5"	9.9"	0.0	-25.1"	-70.2"	-141.0"
TRAJ: 400 yds. zero	-1.5"	14.8"	22.5"	18.8"	0.0	-38.9"	-103.4"
TRAJ: 500 yds. zero	-1.5"	22.5"	38.0"	42.1"	31.1"	0.0	-56.7"
TRAJ: 600 yds. zero	-1.5"	32.0"	56.9"	70.5"	68.9"	47.3"	0.0
VELOCITY (fps)	2200	1925	1673	1449	1261	1120	1024
ENERGY (ft.-lbs.)	1719	1316	994	746	565	446	372
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-28.4"	-65.6"	-124.7"	-211.3"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-16.5"	-49.7"	-104.8"	-187.4"
TRAJ: 300 yds. zero	-1.5"	9.5"	11.0"	0.0	-27.7"	-77.4"	-154.4"
TRAJ: 400 yds. zero	-1.5"	16.4"	24.8"	20.8"	0.0	-42.8"	-112.9"
TRAJ: 500 yds. zero	-1.5"	24.9"	41.9"	46.4"	34.2"	0.0	-61.6"
TRAJ: 600 yds. zero	-1.5"	35.2"	62.5"	77.2"	75.3"	51.3"	0.0
VELOCITY (fps)	2100	1833	1590	1378	1206	1081	997
ENERGY (ft.-lbs.)	1566	1193	898	674	516	415	353
TRAJ: 100 yds. zero	-1.5"	0.0	-8.9"	-31.7"	-72.9"	-138.1"	-232.4"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-18.3"	-55.1"	-115.8"	-205.6"
TRAJ: 300 yds. zero	-1.5"	10.6"	12.2"	0.0	-30.7"	-85.3"	-169.0"
TRAJ: 400 yds. zero	-1.5"	18.2"	27.5"	23.0"	0.0	-47.0"	-123.0"
TRAJ: 500 yds. zero	-1.5"	27.6"	46.3"	51.2"	37.6"	0.0	-66.6"
TRAJ: 600 yds. zero	-1.5"	38.7"	68.5"	84.5"	82.0"	55.5"	0.0
VELOCITY (fps)	2000	1741	1509	1310	1155	1047	972
ENERGY (ft.-lbs.)	1421	1077	808	610	474	389	336
TRAJ: 100 yds. zero	-1.5"	0.0	-10.0"	-35.5"	-81.3"	-153.1"	-255.4"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-20.4"	-61.2"	-127.9"	-225.3"
TRAJ: 300 yds. zero	-1.5"	11.8"	13.6"	0.0	-34.0"	-93.9"	-184.5"
TRAJ: 400 yds. zero	-1.5"	20.3"	30.6"	25.5"	0.0	-51.5"	-133.5"
TRAJ: 500 yds. zero	-1.5"	30.6"	51.2"	56.4"	41.2"	0.0	-71.7"
TRAJ: 600 yds. zero	-1.5"	42.6"	75.1"	92.2"	89.0"	59.8"	0.0
VELOCITY (fps)	1900	1650	1430	1246	1109	1016	949
ENERGY (ft.-lbs.)	1282	967	726	552	437	367	320
TRAJ: 100 yds. zero	-1.5"	0.0	-11.4"	-39.8"	-90.7"	-169.6"	-280.5"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-22.8"	-68.0"	-141.2"	-246.5"
TRAJ: 300 yds. zero	-1.5"	13.3"	15.2"	0.0	-37.7"	-103.2"	-200.9"
TRAJ: 400 yds. zero	-1.5"	22.7"	34.0"	28.2"	0.0	-56.2"	-144.4"
TRAJ: 500 yds. zero	-1.5"	33.9"	56.5"	61.9"	44.9"	0.0	-77.0"
TRAJ: 600 yds. zero	-1.5"	46.8"	82.2"	100.5"	96.3"	64.2"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1800	1561	1353	1187	1069	988	927
ENERGY (ft.-lbs.)	1151	865	651	501	406	347	305
TRAJ: 100 yds. zero	-1.5"	0.0	-12.9"	-44.8"	-101.4"	-187.8"	-307.9"
TRAJ: 200 yds. zero	-1.5"	6.4"	0.0	-25.5"	-75.7"	-155.6"	-269.3"
TRAJ: 300 yds. zero	-1.5"	14.9"	17.0"	0.0	-41.7"	-113.1"	-218.3"
TRAJ: 400 yds. zero	-1.5"	25.3"	37.8"	31.2"	0.0	-61.0"	-155.8"
TRAJ: 500 yds. zero	-1.5"	37.6"	62.2"	67.9"	48.8"	0.0	-82.6"
TRAJ: 600 yds. zero	-1.5"	51.3"	89.8"	109.1"	103.9"	68.8"	0.0

270 CALIBER (.277" Dia.) 100 GRAIN SPIRE POINT
SECTIONAL DENSITY: .186 BALLISTIC COEFFICIENT: .307

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3800	3432	3095	2783	2491	2218	1962
ENERGY (ft.-lbs.)	3206	2616	2127	1719	1378	1092	855
TRAJ: 100 yds. zero	-1.5"	0.0	-1.5"	-6.6"	-16.1"	-31.4"	-53.6"
TRAJ: 200 yds. zero	-1.5"	0.7"	0.0	-4.4"	-13.2"	-27.7"	-49.3"
TRAJ: 300 yds. zero	-1.5"	2.2"	2.9"	0.0	-7.4"	-20.4"	-40.5"
TRAJ: 400 yds. zero	-1.5"	4.0"	6.6"	5.6"	0.0	-11.2"	-29.4"
TRAJ: 500 yds. zero	-1.5"	6.3"	11.1"	12.3"	8.9"	0.0	-16.0"
TRAJ: 600 yds. zero	-1.5"	8.9"	16.4"	20.3"	19.6"	13.3"	0.0
VELOCITY (fps)	3700	3341	3011	2704	2418	2149	1898
ENERGY (ft.-lbs.)	3039	2478	2012	1623	1298	1025	800
TRAJ: 100 yds. zero	-1.5"	0.0	-1.6"	-7.1"	-17.3"	-33.5"	-57.3"
TRAJ: 200 yds. zero	-1.5"	0.8"	0.0	-4.7"	-14.1"	-29.5"	-52.4"
TRAJ: 300 yds. zero	-1.5"	2.4"	3.1"	0.0	-7.9"	-21.7"	-43.1"
TRAJ: 400 yds. zero	-1.5"	4.3"	7.0"	5.9"	0.0	-11.9"	-31.3"
TRAJ: 500 yds. zero	-1.5"	6.7"	11.8"	13.0"	9.5"	0.0	-17.0"
TRAJ: 600 yds. zero	-1.5"	9.5"	17.5"	21.5"	20.8"	14.2"	0.0
VELOCITY (fps)	3600	3249	2926	2625	2343	2079	1833
ENERGY (ft.-lbs.)	2877	2344	1901	1530	1219	960	746
TRAJ: 100 yds. zero	-1.5"	0.0	-1.8"	-7.7"	-18.6"	-35.9"	-61.2"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.0"	-15.0"	-31.4"	-55.8"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.3"	0.0	-8.4"	-23.1"	-45.9"
TRAJ: 400 yds. zero	-1.5"	4.7"	7.5"	6.3"	0.0	-12.6"	-33.3"
TRAJ: 500 yds. zero	-1.5"	7.2"	12.6"	13.9"	10.1"	0.0	-18.2"
TRAJ: 600 yds. zero	-1.5"	10.2"	18.6"	22.9"	22.2"	15.1"	0.0
VELOCITY (fps)	3500	3157	2841	2545	2269	2009	1769
ENERGY (ft.-lbs.)	2720	2213	1791	1438	1143	896	695
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.3"	-20.0"	-38.5"	-65.6"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.3"	-16.0"	-33.5"	-59.6"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.5"	0.0	-8.9"	-24.6"	-49.0"
TRAJ: 400 yds. zero	-1.5"	5.0"	8.0"	6.7"	0.0	-13.5"	-35.6"
TRAJ: 500 yds. zero	-1.5"	7.7"	13.4"	14.8"	10.8"	0.0	-19.4"
TRAJ: 600 yds. zero	-1.5"	10.9"	19.9"	24.5"	23.7"	16.2"	0.0
VELOCITY (fps)	3400	3065	2755	2465	2193	1939	1705
ENERGY (ft.-lbs.)	2566	2086	1685	1349	1068	835	645
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-9.0"	-21.6"	-41.4"	-70.5"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.7"	-17.1"	-35.8"	-63.8"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.5"	-26.3"	-52.4"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.6"	7.2"	0.0	-14.4"	-38.1"
TRAJ: 500 yds. zero	-1.5"	8.3"	14.3"	15.8"	11.5"	0.0	-20.8"
TRAJ: 600 yds. zero	-1.5"	11.7"	21.3"	26.2"	25.4"	17.4"	0.0
VELOCITY (fps)	3300	2973	2669	2384	2118	1869	1641
ENERGY (ft.-lbs.)	2418	1962	1581	1262	996	776	598
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.8"	-23.3"	-44.5"	-75.8"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.1"	-18.4"	-38.4"	-68.5"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.1"	0.0	-10.2"	-28.2"	-56.2"
TRAJ: 400 yds. zero	-1.5"	5.8"	9.2"	7.7"	0.0	-15.4"	-40.9"
TRAJ: 500 yds. zero	-1.5"	8.9"	15.4"	16.9"	12.4"	0.0	-22.4"
TRAJ: 600 yds. zero	-1.5"	12.6"	22.8"	28.1"	27.3"	18.6"	0.0
VELOCITY (fps)	3200	2880	2582	2303	2042	1799	1577
ENERGY (ft.-lbs.)	2273	1842	1480	1178	926	718	552
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.6"	-25.2"	-48.1"	-81.8"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.6"	-19.7"	-41.3"	-73.7"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.4"	0.0	-11.0"	-30.3"	-60.5"
TRAJ: 400 yds. zero	-1.5"	6.3"	9.9"	8.2"	0.0	-16.6"	-44.0"
TRAJ: 500 yds. zero	-1.5"	9.6"	16.5"	18.2"	13.3"	0.0	-24.1"
TRAJ: 600 yds. zero	-1.5"	13.6"	24.6"	30.2"	29.4"	20.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2787	2495	2222	1966	1729	1515
ENERGY (ft.-lbs.)	2133	1725	1383	1096	858	664	510
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.6"	-27.3"	-52.0"	-88.4"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.1"	-21.3"	-44.5"	-79.4"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.7"	0.0	-11.8"	-32.7"	-65.2"
TRAJ: 400 yds. zero	-1.5"	6.8"	10.6"	8.9"	0.0	-17.9"	-47.5"
TRAJ: 500 yds. zero	-1.5"	10.4"	17.8"	19.6"	14.3"	0.0	-26.0"
TRAJ: 600 yds. zero	-1.5"	14.7"	26.5"	32.6"	31.7"	21.7"	0.0
VELOCITY (fps)	3000	2694	2408	2140	1890	1659	1454
ENERGY (ft.-lbs.)	1998	1611	1288	1017	793	611	469
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.6"	-29.6"	-56.3"	-95.8"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.7"	-23.0"	-48.1"	-85.9"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.1"	0.0	-12.7"	-35.3"	-70.6"
TRAJ: 400 yds. zero	-1.5"	7.4"	11.5"	9.6"	0.0	-19.4"	-51.5"
TRAJ: 500 yds. zero	-1.5"	11.3"	19.2"	21.2"	15.5"	0.0	-28.2"
TRAJ: 600 yds. zero	-1.5"	16.0"	28.6"	35.3"	34.3"	23.5"	0.0
VELOCITY (fps)	2900	2601	2321	2058	1814	1591	1394
ENERGY (ft.-lbs.)	1867	1502	1196	940	730	562	431
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-13.8"	-32.2"	-61.2"	-104.2"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.3"	-24.9"	-52.1"	-93.2"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.5"	0.0	-13.8"	-38.2"	-76.5"
TRAJ: 400 yds. zero	-1.5"	8.1"	12.4"	10.3"	0.0	-21.0"	-55.9"
TRAJ: 500 yds. zero	-1.5"	12.2"	20.8"	22.9"	16.8"	0.0	-30.7"
TRAJ: 600 yds. zero	-1.5"	17.4"	31.1"	38.3"	37.2"	25.6"	0.0
VELOCITY (fps)	2800	2507	2233	1976	1738	1523	1337
ENERGY (ft.-lbs.)	1741	1396	1107	867	671	515	397
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-15.1"	-35.1"	-66.7"	-113.5"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.0"	-27.0"	-56.6"	-101.3"
TRAJ: 300 yds. zero	-1.5"	5.0"	6.0"	0.0	-15.0"	-41.5"	-83.2"
TRAJ: 400 yds. zero	-1.5"	8.8"	13.5"	11.2"	0.0	-22.8"	-60.8"
TRAJ: 500 yds. zero	-1.5"	13.3"	22.6"	24.9"	18.3"	0.0	-33.4"
TRAJ: 600 yds. zero	-1.5"	18.9"	33.8"	41.6"	40.5"	27.8"	0.0
VELOCITY (fps)	2700	2414	2145	1894	1664	1457	1282
ENERGY (ft.-lbs.)	1618	1293	1022	797	615	472	365
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.6"	-38.4"	-72.9"	-123.9"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.8"	-29.4"	-61.7"	-110.5"
TRAJ: 300 yds. zero	-1.5"	5.5"	6.6"	0.0	-16.3"	-45.3"	-90.8"
TRAJ: 400 yds. zero	-1.5"	9.6"	14.7"	12.2"	0.0	-24.9"	-66.3"
TRAJ: 500 yds. zero	-1.5"	14.6"	24.7"	27.2"	19.9"	0.0	-36.4"
TRAJ: 600 yds. zero	-1.5"	20.7"	36.8"	45.4"	44.2"	30.4"	0.0
VELOCITY (fps)	2600	2320	2057	1813	1590	1394	1230
ENERGY (ft.-lbs.)	1501	1195	940	730	561	431	336
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-18.2"	-42.1"	-79.9"	-135.7"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.8"	-32.1"	-67.4"	-120.8"
TRAJ: 300 yds. zero	-1.5"	6.1"	7.2"	0.0	-17.8"	-49.5"	-99.2"
TRAJ: 400 yds. zero	-1.5"	10.5"	16.1"	13.4"	0.0	-27.2"	-72.5"
TRAJ: 500 yds. zero	-1.5"	16.0"	27.0"	29.7"	21.8"	0.0	-39.9"
TRAJ: 600 yds. zero	-1.5"	22.6"	40.3"	49.6"	48.4"	33.2"	0.0
VELOCITY (fps)	2500	2226	1970	1733	1518	1332	1182
ENERGY (ft.-lbs.)	1388	1100	861	666	512	394	310
TRAJ: 100 yds. zero	-1.5"	0.0	-5.5"	-20.1"	-46.3"	-87.8"	-149.0"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.8"	-35.2"	-73.9"	-132.3"
TRAJ: 300 yds. zero	-1.5"	6.7"	7.9"	0.0	-19.5"	-54.2"	-108.8"
TRAJ: 400 yds. zero	-1.5"	11.6"	17.6"	14.6"	0.0	-29.9"	-79.5"
TRAJ: 500 yds. zero	-1.5"	17.6"	29.6"	32.5"	23.9"	0.0	-43.7"
TRAJ: 600 yds. zero	-1.5"	24.8"	44.1"	54.4"	53.0"	36.4"	0.0
VELOCITY (fps)	2400	2132	1883	1653	1448	1274	1138
ENERGY (ft.-lbs.)	1279	1009	787	607	465	360	288
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-22.2"	-51.1"	-96.7"	-163.9"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-13.0"	-38.7"	-81.2"	-145.3"
TRAJ: 300 yds. zero	-1.5"	7.4"	8.6"	0.0	-21.5"	-59.6"	-119.4"
TRAJ: 400 yds. zero	-1.5"	12.8"	19.4"	16.1"	0.0	-32.8"	-87.2"
TRAJ: 500 yds. zero	-1.5"	19.3"	32.5"	35.8"	26.2"	0.0	-47.9"
TRAJ: 600 yds. zero	-1.5"	27.3"	48.4"	59.7"	58.2"	39.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2300	2039	1796	1575	1380	1219	1099
ENERGY (ft.-lbs.)	1174	923	716	551	423	330	268
TRAJ: 100 yds. zero	-1.5"	0.0	-6.9"	-24.7"	-56.5"	-106.8"	-180.6"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-14.3"	-42.7"	-89.5"	-159.8"
TRAJ: 300 yds. zero	-1.5"	8.2"	9.5"	0.0	-23.6"	-65.7"	-131.2"
TRAJ: 400 yds. zero	-1.5"	14.1"	21.4"	17.7"	0.0	-36.1"	-95.8"
TRAJ: 500 yds. zero	-1.5"	21.4"	35.8"	39.4"	28.9"	0.0	-52.4"
TRAJ: 600 yds. zero	-1.5"	30.1"	53.3"	65.6"	63.8"	43.7"	0.0
VELOCITY (fps)	2200	1945	1710	1498	1316	1169	1064
ENERGY (ft.-lbs.)	1075	840	649	498	384	304	251
TRAJ: 100 yds. zero	-1.5"	0.0	-7.7"	-27.4"	-62.7"	-118.2"	-199.2"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-15.8"	-47.2"	-98.9"	-176.0"
TRAJ: 300 yds. zero	-1.5"	9.1"	10.6"	0.0	-26.1"	-72.5"	-144.3"
TRAJ: 400 yds. zero	-1.5"	15.7"	23.6"	19.6"	0.0	-39.8"	-105.1"
TRAJ: 500 yds. zero	-1.5"	23.6"	39.6"	43.5"	31.9"	0.0	-57.3"
TRAJ: 600 yds. zero	-1.5"	33.2"	58.7"	72.1"	70.1"	47.7"	0.0
VELOCITY (fps)	2100	1853	1626	1424	1255	1124	1033
ENERGY (ft.-lbs.)	979	762	587	450	349	281	237
TRAJ: 100 yds. zero	-1.5"	0.0	-8.7"	-30.6"	-69.8"	-131.1"	-219.8"
TRAJ: 200 yds. zero	-1.5"	4.3"	0.0	-17.6"	-52.4"	-109.4"	-193.7"
TRAJ: 300 yds. zero	-1.5"	10.2"	11.7"	0.0	-29.0"	-80.1"	-158.5"
TRAJ: 400 yds. zero	-1.5"	17.4"	26.2"	21.7"	0.0	-43.9"	-115.1"
TRAJ: 500 yds. zero	-1.5"	26.2"	43.8"	48.1"	35.1"	0.0	-62.4"
TRAJ: 600 yds. zero	-1.5"	36.6"	64.6"	79.3"	76.7"	52.0"	0.0
VELOCITY (fps)	2000	1760	1543	1353	1198	1084	1004
ENERGY (ft.-lbs.)	888	688	529	406	319	261	224
TRAJ: 100 yds. zero	-1.5"	0.0	-9.8"	-34.3"	-77.8"	-145.7"	-242.5"
TRAJ: 200 yds. zero	-1.5"	4.9"	0.0	-19.6"	-58.3"	-121.2"	-213.1"
TRAJ: 300 yds. zero	-1.5"	11.4"	13.1"	0.0	-32.2"	-88.6"	-174.0"
TRAJ: 400 yds. zero	-1.5"	19.5"	29.1"	24.1"	0.0	-48.4"	-125.7"
TRAJ: 500 yds. zero	-1.5"	29.1"	48.5"	53.1"	38.7"	0.0	-67.7"
TRAJ: 600 yds. zero	-1.5"	40.4"	71.0"	87.0"	83.8"	56.4"	0.0
VELOCITY (fps)	1900	1669	1462	1285	1147	1048	978
ENERGY (ft.-lbs.)	801	618	474	367	292	244	212
TRAJ: 100 yds. zero	-1.5"	0.0	-11.1"	-38.5"	-87.0"	-161.9"	-267.4"
TRAJ: 200 yds. zero	-1.5"	5.5"	0.0	-21.9"	-64.9"	-134.2"	-234.2"
TRAJ: 300 yds. zero	-1.5"	12.8"	14.6"	0.0	-35.7"	-97.8"	-190.4"
TRAJ: 400 yds. zero	-1.5"	21.8"	32.4"	26.8"	0.0	-53.1"	-136.9"
TRAJ: 500 yds. zero	-1.5"	32.4"	53.7"	58.7"	42.5"	0.0	-73.1"
TRAJ: 600 yds. zero	-1.5"	44.6"	78.1"	95.2"	91.2"	60.9"	0.0
VELOCITY (fps)	1800	1578	1383	1222	1101	1016	954
ENERGY (ft.-lbs.)	719	553	425	331	269	229	202
TRAJ: 100 yds. zero	-1.5"	0.0	-12.5"	-43.3"	-97.4"	-179.8"	-294.6"
TRAJ: 200 yds. zero	-1.5"	6.3"	0.0	-24.5"	-72.4"	-148.5"	-257.0"
TRAJ: 300 yds. zero	-1.5"	14.4"	16.3"	0.0	-39.7"	-107.7"	-208.0"
TRAJ: 400 yds. zero	-1.5"	24.4"	36.2"	29.8"	0.0	-58.1"	-148.5"
TRAJ: 500 yds. zero	-1.5"	36.0"	59.4"	64.6"	46.5"	0.0	-78.8"
TRAJ: 600 yds. zero	-1.5"	49.1"	85.7"	104.0"	99.0"	65.6"	0.0
VELOCITY (fps)	1700	1489	1308	1164	1060	987	930
ENERGY (ft.-lbs.)	642	492	380	301	250	216	192
TRAJ: 100 yds. zero	-1.5"	0.0	-14.2"	-48.9"	-109.1"	-199.7"	-324.2"
TRAJ: 200 yds. zero	-1.5"	7.1"	0.0	-27.5"	-80.6"	-164.0"	-281.4"
TRAJ: 300 yds. zero	-1.5"	16.3"	18.3"	0.0	-43.9"	-118.2"	-226.4"
TRAJ: 400 yds. zero	-1.5"	27.3"	40.3"	33.0"	0.0	-63.3"	-160.5"
TRAJ: 500 yds. zero	-1.5"	39.9"	65.6"	70.9"	50.6"	0.0	-84.6"
TRAJ: 600 yds. zero	-1.5"	54.0"	93.8"	113.2"	107.0"	70.5"	0.0
VELOCITY (fps)	1600	1402	1237	1111	1024	959	908
ENERGY (ft.-lbs.)	568	436	339	274	233	204	183
TRAJ: 100 yds. zero	-1.5"	0.0	-16.3"	-55.3"	-122.2"	-221.4"	-356.5"
TRAJ: 200 yds. zero	-1.5"	8.1"	0.0	-30.9"	-89.7"	-180.7"	-307.7"
TRAJ: 300 yds. zero	-1.5"	18.4"	20.6"	0.0	-48.5"	-129.3"	-246.0"
TRAJ: 400 yds. zero	-1.5"	30.6"	44.9"	36.4"	0.0	-68.6"	-173.2"
TRAJ: 500 yds. zero	-1.5"	44.3"	72.3"	77.6"	54.9"	0.0	-90.9"
TRAJ: 600 yds. zero	-1.5"	59.4"	102.6"	123.0"	115.5"	75.7"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1500	1317	1170	1065	990	933	886
ENERGY (ft.-lbs.)	500	385	304	252	218	193	174
TRAJ: 100 yds. zero	-1.5"	0.0	-18.6"	-62.5"	-136.7"	-245.2"	-391.8"
TRAJ: 200 yds. zero	-1.5"	9.3"	0.0	-34.6"	-99.5"	-198.7"	-336.0"
TRAJ: 300 yds. zero	-1.5"	20.8"	23.1"	0.0	-53.3"	-141.0"	-266.7"
TRAJ: 400 yds. zero	-1.5"	34.2"	49.7"	40.0"	0.0	-74.3"	-186.7"
TRAJ: 500 yds. zero	-1.5"	49.0"	79.5"	84.6"	59.5"	0.0	-97.5"
TRAJ: 600 yds. zero	-1.5"	65.3"	112.0"	133.3"	124.5"	81.3"	0.0
VELOCITY (fps)	1400	1235	1110	1023	959	907	863
ENERGY (ft.-lbs.)	435	339	274	232	204	183	165
TRAJ: 100 yds. zero	-1.5"	0.0	-21.3"	-70.7"	-152.6"	-271.3"	-430.3"
TRAJ: 200 yds. zero	-1.5"	10.6"	0.0	-38.7"	-110.0"	-218.0"	-366.4"
TRAJ: 300 yds. zero	-1.5"	23.6"	25.8"	0.0	-58.4"	-153.5"	-289.0"
TRAJ: 400 yds. zero	-1.5"	38.2"	55.0"	43.8"	0.0	-80.5"	-201.4"
TRAJ: 500 yds. zero	-1.5"	54.3"	87.2"	92.1"	64.4"	0.0	-104.8"
TRAJ: 600 yds. zero	-1.5"	71.7"	122.1"	144.5"	134.3"	87.4"	0.0
VELOCITY (fps)	1300	1158	1056	984	928	881	840
ENERGY (ft.-lbs.)	375	298	248	215	191	172	157
TRAJ: 100 yds. zero	-1.5"	0.0	-24.4"	-79.7"	-170.3"	-300.1"	-473.2"
TRAJ: 200 yds. zero	-1.5"	12.2"	0.0	-43.1"	-121.5"	-239.2"	-400.0"
TRAJ: 300 yds. zero	-1.5"	26.6"	28.8"	0.0	-64.0"	-167.3"	-313.8"
TRAJ: 400 yds. zero	-1.5"	42.6"	60.8"	48.0"	0.0	-87.3"	-217.8"
TRAJ: 500 yds. zero	-1.5"	60.0"	95.7"	100.4"	69.8"	0.0	-113.1"
TRAJ: 600 yds. zero	-1.5"	78.9"	133.3"	156.9"	145.2"	94.2"	0.0
VELOCITY (fps)	1200	1086	1005	945	896	853	815
ENERGY (ft.-lbs.)	320	262	224	198	178	162	147
TRAJ: 100 yds. zero	-1.5"	0.0	-27.9"	-89.9"	-190.3"	-333.1"	-522.5"
TRAJ: 200 yds. zero	-1.5"	13.9"	0.0	-48.1"	-134.5"	-263.4"	-438.8"
TRAJ: 300 yds. zero	-1.5"	30.0"	32.0"	0.0	-70.4"	-183.2"	-342.7"
TRAJ: 400 yds. zero	-1.5"	47.6"	67.2"	52.8"	0.0	-95.2"	-237.1"
TRAJ: 500 yds. zero	-1.5"	66.6"	105.3"	109.9"	76.2"	0.0	-122.8"
TRAJ: 600 yds. zero	-1.5"	87.1"	146.3"	171.3"	158.0"	102.3"	0.0
VELOCITY (fps)	1100	1016	953	903	859	820	785
ENERGY (ft.-lbs.)	269	229	202	181	164	149	137
TRAJ: 100 yds. zero	-1.5"	0.0	-32.1"	-102.2"	-214.7"	-373.6"	-583.4"
TRAJ: 200 yds. zero	-1.5"	16.1"	0.0	-54.1"	-150.5"	-293.3"	-487.1"
TRAJ: 300 yds. zero	-1.5"	34.1"	36.1"	0.0	-78.3"	-203.2"	-379.0"
TRAJ: 400 yds. zero	-1.5"	53.7"	75.2"	58.8"	0.0	-105.2"	-261.5"
TRAJ: 500 yds. zero	-1.5"	74.7"	117.3"	121.9"	84.2"	0.0	-135.2"
TRAJ: 600 yds. zero	-1.5"	97.2"	162.4"	189.5"	174.3"	112.6"	0.0

270 CALIBER (.277" Dia.) 110 GRAIN HOLLOW POINT

SECTIONAL DENSITY: .205 BALLISTIC COEFFICIENT: .352

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3600	3292	3006	2738	2485	2246	2020
ENERGY (ft.-lbs.)	3165	2647	2207	1831	1508	1232	997
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.3"	-17.5"	-33.3"	-56.1"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-4.7"	-14.1"	-29.1"	-50.9"
TRAJ: 300 yds. zero	-1.5"	2.4"	3.1"	0.0	-7.8"	-21.2"	-41.5"
TRAJ: 400 yds. zero	-1.5"	4.4"	7.0"	5.8"	0.0	-11.5"	-29.8"
TRAJ: 500 yds. zero	-1.5"	6.7"	11.6"	12.7"	9.2"	0.0	-16.1"
TRAJ: 600 yds. zero	-1.5"	9.3"	17.0"	20.8"	19.9"	13.4"	0.0
VELOCITY (fps)	3500	3200	2919	2656	2408	2173	1952
ENERGY (ft.-lbs.)	2992	2500	2081	1723	1416	1153	930
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-7.9"	-18.8"	-35.7"	-60.1"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.0"	-15.0"	-31.0"	-54.3"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.4"	0.0	-8.3"	-22.6"	-44.3"
TRAJ: 400 yds. zero	-1.5"	4.7"	7.5"	6.2"	0.0	-12.2"	-31.8"
TRAJ: 500 yds. zero	-1.5"	7.1"	12.4"	13.6"	9.8"	0.0	-17.2"
TRAJ: 600 yds. zero	-1.5"	10.0"	18.1"	22.1"	21.2"	14.3"	0.0
VELOCITY (fps)	3400	3107	2832	2574	2330	2100	1883
ENERGY (ft.-lbs.)	2823	2357	1959	1618	1326	1077	866
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.6"	-20.3"	-38.4"	-64.4"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.4"	-16.1"	-33.1"	-58.1"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.6"	0.0	-8.9"	-24.1"	-47.3"
TRAJ: 400 yds. zero	-1.5"	5.1"	8.0"	6.6"	0.0	-13.1"	-34.0"
TRAJ: 500 yds. zero	-1.5"	7.7"	13.2"	14.5"	10.4"	0.0	-18.4"
TRAJ: 600 yds. zero	-1.5"	10.7"	19.4"	23.7"	22.7"	15.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	3013	2745	2491	2252	2026	1814
ENERGY (ft.-lbs.)	2659	2217	1840	1516	1238	1002	804
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.3"	-21.9"	-41.3"	-69.3"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.8"	-17.2"	-35.5"	-62.3"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.9"	0.0	-9.5"	-25.8"	-50.7"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.6"	7.1"	0.0	-14.0"	-36.5"
TRAJ: 500 yds. zero	-1.5"	8.3"	14.2"	15.5"	11.2"	0.0	-19.7"
TRAJ: 600 yds. zero	-1.5"	11.5"	20.8"	25.3"	24.3"	16.4"	0.0
VELOCITY (fps)	3200	2920	2657	2408	2173	1952	1745
ENERGY (ft.-lbs.)	2501	2082	1724	1416	1154	930	744
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.1"	-23.6"	-44.6"	-74.6"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.2"	-18.5"	-38.1"	-66.9"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.2"	0.0	-10.2"	-27.7"	-54.4"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.2"	7.6"	0.0	-15.0"	-39.2"
TRAJ: 500 yds. zero	-1.5"	8.9"	15.2"	16.6"	12.0"	0.0	-21.2"
TRAJ: 600 yds. zero	-1.5"	12.4"	22.3"	27.2"	26.1"	17.6"	0.0
VELOCITY (fps)	3100	2826	2568	2325	2094	1878	1677
ENERGY (ft.-lbs.)	2347	1950	1611	1320	1071	861	687
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.0"	-25.6"	-48.2"	-80.6"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.7"	-19.9"	-41.0"	-72.0"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.5"	0.0	-10.9"	-29.8"	-58.6"
TRAJ: 400 yds. zero	-1.5"	6.4"	9.9"	8.2"	0.0	-16.1"	-42.2"
TRAJ: 500 yds. zero	-1.5"	9.6"	16.4"	17.9"	12.9"	0.0	-22.8"
TRAJ: 600 yds. zero	-1.5"	13.4"	24.0"	29.3"	28.1"	19.0"	0.0
VELOCITY (fps)	3000	2732	2480	2241	2015	1804	1609
ENERGY (ft.-lbs.)	2198	1823	1501	1226	992	795	632
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.0"	-27.8"	-52.2"	-87.3"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.3"	-21.5"	-44.2"	-77.8"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.8"	-32.2"	-63.3"
TRAJ: 400 yds. zero	-1.5"	6.9"	10.7"	8.8"	0.0	-17.4"	-45.6"
TRAJ: 500 yds. zero	-1.5"	10.4"	17.7"	19.3"	13.9"	0.0	-24.7"
TRAJ: 600 yds. zero	-1.5"	14.5"	25.9"	31.6"	30.4"	20.6"	0.0
VELOCITY (fps)	2900	2638	2391	2157	1936	1731	1542
ENERGY (ft.-lbs.)	2054	1699	1396	1136	916	731	581
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.1"	-30.2"	-56.7"	-94.8"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.9"	-23.2"	-47.9"	-84.2"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.2"	0.0	-12.7"	-34.8"	-68.5"
TRAJ: 400 yds. zero	-1.5"	7.6"	11.6"	9.6"	0.0	-18.9"	-49.4"
TRAJ: 500 yds. zero	-1.5"	11.3"	19.2"	20.9"	15.1"	0.0	-26.8"
TRAJ: 600 yds. zero	-1.5"	15.8"	28.1"	34.3"	32.9"	22.3"	0.0
VELOCITY (fps)	2800	2544	2301	2072	1857	1658	1477
ENERGY (ft.-lbs.)	1915	1580	1293	1049	843	671	533
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.4"	-33.0"	-61.7"	-103.1"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.5"	-25.2"	-52.0"	-91.5"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.7"	0.0	-13.8"	-37.7"	-74.4"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.6"	10.4"	0.0	-20.5"	-53.7"
TRAJ: 500 yds. zero	-1.5"	12.3"	20.8"	22.6"	16.4"	0.0	-29.1"
TRAJ: 600 yds. zero	-1.5"	17.2"	30.5"	37.2"	35.8"	24.3"	0.0
VELOCITY (fps)	2700	2449	2212	1988	1779	1586	1414
ENERGY (ft.-lbs.)	1780	1465	1195	965	773	614	488
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-15.8"	-36.0"	-67.3"	-112.6"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.3"	-27.4"	-56.6"	-99.6"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.2"	0.0	-15.0"	-41.1"	-81.1"
TRAJ: 400 yds. zero	-1.5"	9.0"	13.7"	11.3"	0.0	-22.3"	-58.5"
TRAJ: 500 yds. zero	-1.5"	13.5"	22.6"	24.7"	17.8"	0.0	-31.8"
TRAJ: 600 yds. zero	-1.5"	18.8"	33.2"	40.5"	39.0"	26.5"	0.0
VELOCITY (fps)	2600	2355	2123	1904	1701	1516	1352
ENERGY (ft.-lbs.)	1651	1354	1100	886	707	561	446
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-17.3"	-39.5"	-73.7"	-123.2"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.1"	-29.9"	-61.8"	-108.8"
TRAJ: 300 yds. zero	-1.5"	5.8"	6.8"	0.0	-16.4"	-44.9"	-88.6"
TRAJ: 400 yds. zero	-1.5"	9.9"	15.0"	12.3"	0.0	-24.4"	-64.0"
TRAJ: 500 yds. zero	-1.5"	14.7"	24.7"	26.9"	19.5"	0.0	-34.7"
TRAJ: 600 yds. zero	-1.5"	20.5"	36.3"	44.3"	42.7"	28.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2500	2260	2034	1821	1625	1447	1294
ENERGY (ft.-lbs.)	1526	1247	1010	810	645	512	409
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.1"	-43.4"	-81.0"	-135.2"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.1"	-32.7"	-67.6"	-119.2"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.4"	0.0	-17.9"	-49.1"	-97.0"
TRAJ: 400 yds. zero	-1.5"	10.9"	16.4"	13.5"	0.0	-26.7"	-70.1"
TRAJ: 500 yds. zero	-1.5"	16.2"	27.1"	29.5"	21.4"	0.0	-38.1"
TRAJ: 600 yds. zero	-1.5"	22.5"	39.7"	48.5"	46.8"	31.7"	0.0
VELOCITY (fps)	2400	2166	1945	1738	1549	1381	1239
ENERGY (ft.-lbs.)	1407	1145	923	738	586	466	375
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-21.1"	-47.8"	-89.1"	-148.8"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-12.2"	-36.0"	-74.3"	-131.0"
TRAJ: 300 yds. zero	-1.5"	7.0"	8.1"	0.0	-19.7"	-54.0"	-106.6"
TRAJ: 400 yds. zero	-1.5"	12.0"	18.0"	14.8"	0.0	-29.3"	-77.1"
TRAJ: 500 yds. zero	-1.5"	17.8"	29.7"	32.4"	23.5"	0.0	-41.8"
TRAJ: 600 yds. zero	-1.5"	24.8"	43.7"	53.3"	51.4"	34.9"	0.0
VELOCITY (fps)	2300	2071	1856	1657	1476	1318	1188
ENERGY (ft.-lbs.)	1292	1048	841	670	532	424	344
TRAJ: 100 yds. zero	-1.5"	0.0	-6.6"	-23.4"	-52.9"	-98.5"	-164.2"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-13.5"	-39.6"	-81.9"	-144.3"
TRAJ: 300 yds. zero	-1.5"	7.8"	9.0"	0.0	-21.7"	-59.5"	-117.4"
TRAJ: 400 yds. zero	-1.5"	13.2"	19.8"	16.3"	0.0	-32.3"	-84.8"
TRAJ: 500 yds. zero	-1.5"	19.7"	32.7"	35.7"	25.9"	0.0	-46.0"
TRAJ: 600 yds. zero	-1.5"	27.4"	48.1"	58.7"	56.5"	38.3"	0.0
VELOCITY (fps)	2200	1977	1768	1577	1405	1258	1141
ENERGY (ft.-lbs.)	1182	954	764	607	482	387	318
TRAJ: 100 yds. zero	-1.5"	0.0	-7.4"	-26.0"	-58.7"	-109.0"	-181.5"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-14.9"	-43.8"	-90.5"	-159.2"
TRAJ: 300 yds. zero	-1.5"	8.7"	9.9"	0.0	-24.0"	-65.7"	-129.5"
TRAJ: 400 yds. zero	-1.5"	14.7"	21.9"	18.0"	0.0	-35.7"	-93.5"
TRAJ: 500 yds. zero	-1.5"	21.8"	36.2"	39.4"	28.5"	0.0	-50.7"
TRAJ: 600 yds. zero	-1.5"	30.3"	53.1"	64.7"	62.3"	42.2"	0.0
VELOCITY (fps)	2100	1883	1682	1498	1337	1203	1100
ENERGY (ft.-lbs.)	1077	866	691	548	437	353	295
TRAJ: 100 yds. zero	-1.5"	0.0	-8.3"	-29.0"	-65.3"	-121.1"	-201.0"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-16.5"	-48.6"	-100.2"	-176.0"
TRAJ: 300 yds. zero	-1.5"	9.7"	11.0"	0.0	-26.6"	-72.7"	-142.9"
TRAJ: 400 yds. zero	-1.5"	16.3"	24.3"	19.9"	0.0	-39.5"	-103.1"
TRAJ: 500 yds. zero	-1.5"	24.2"	40.1"	43.6"	31.6"	0.0	-55.7"
TRAJ: 600 yds. zero	-1.5"	33.5"	58.7"	71.5"	68.7"	46.4"	0.0
VELOCITY (fps)	2000	1790	1596	1422	1272	1152	1063
ENERGY (ft.-lbs.)	977	782	622	494	395	324	276
TRAJ: 100 yds. zero	-1.5"	0.0	-9.4"	-32.5"	-72.9"	-134.8"	-222.9"
TRAJ: 200 yds. zero	-1.5"	4.7"	0.0	-18.4"	-54.1"	-111.3"	-194.7"
TRAJ: 300 yds. zero	-1.5"	10.8"	12.3"	0.0	-29.5"	-80.6"	-157.9"
TRAJ: 400 yds. zero	-1.5"	18.2"	27.0"	22.2"	0.0	-43.7"	-113.6"
TRAJ: 500 yds. zero	-1.5"	27.0"	44.5"	48.4"	35.0"	0.0	-61.1"
TRAJ: 600 yds. zero	-1.5"	37.1"	64.9"	78.9"	75.7"	50.9"	0.0
VELOCITY (fps)	1900	1697	1512	1349	1212	1107	1030
ENERGY (ft.-lbs.)	882	703	558	444	359	299	259
TRAJ: 100 yds. zero	-1.5"	0.0	-10.6"	-36.5"	-81.6"	-150.3"	-247.1"
TRAJ: 200 yds. zero	-1.5"	5.3"	0.0	-20.6"	-60.3"	-123.8"	-215.3"
TRAJ: 300 yds. zero	-1.5"	12.2"	13.7"	0.0	-32.9"	-89.5"	-174.1"
TRAJ: 400 yds. zero	-1.5"	20.4"	30.2"	24.7"	0.0	-48.4"	-124.8"
TRAJ: 500 yds. zero	-1.5"	30.1"	49.5"	53.7"	38.7"	0.0	-66.7"
TRAJ: 600 yds. zero	-1.5"	41.2"	71.8"	87.1"	83.2"	55.6"	0.0
VELOCITY (fps)	1800	1605	1430	1279	1157	1067	1000
ENERGY (ft.-lbs.)	791	629	500	400	327	278	244
TRAJ: 100 yds. zero	-1.5"	0.0	-12.0"	-41.1"	-91.5"	-167.8"	-274.0"
TRAJ: 200 yds. zero	-1.5"	6.0"	0.0	-23.1"	-67.4"	-137.7"	-237.9"
TRAJ: 300 yds. zero	-1.5"	13.7"	15.4"	0.0	-36.7"	-99.3"	-191.7"
TRAJ: 400 yds. zero	-1.5"	22.9"	33.7"	27.5"	0.0	-53.4"	-136.7"
TRAJ: 500 yds. zero	-1.5"	33.6"	55.1"	59.6"	42.7"	0.0	-72.6"
TRAJ: 600 yds. zero	-1.5"	45.7"	79.3"	95.9"	91.1"	60.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1515	1351	1214	1108	1031	973
ENERGY (ft.-lbs.)	706	560	446	360	300	260	231
TRAJ: 100 yds. zero	-1.5"	0.0	-13.7"	-46.5"	-102.9"	-187.4"	-303.5"
TRAJ: 200 yds. zero	-1.5"	6.9"	0.0	-26.0"	-75.5"	-153.1"	-262.4"
TRAJ: 300 yds. zero	-1.5"	15.5"	17.3"	0.0	-40.9"	-109.9"	-210.5"
TRAJ: 400 yds. zero	-1.5"	25.7"	37.8"	30.7"	0.0	-58.7"	-149.2"
TRAJ: 500 yds. zero	-1.5"	37.5"	61.2"	65.9"	47.0"	0.0	-78.7"
TRAJ: 600 yds. zero	-1.5"	50.6"	87.5"	105.3"	99.4"	65.6"	0.0
VELOCITY (fps)	1600	1426	1275	1154	1065	999	947
ENERGY (ft.-lbs.)	625	496	397	325	277	244	219
TRAJ: 100 yds. zero	-1.5"	0.0	-15.7"	-52.7"	-115.8"	-209.1"	-335.9"
TRAJ: 200 yds. zero	-1.5"	7.8"	0.0	-29.2"	-84.5"	-169.9"	-289.0"
TRAJ: 300 yds. zero	-1.5"	17.6"	19.5"	0.0	-45.5"	-121.2"	-230.5"
TRAJ: 400 yds. zero	-1.5"	29.0"	42.3"	34.1"	0.0	-64.3"	-162.2"
TRAJ: 500 yds. zero	-1.5"	41.8"	68.0"	72.7"	51.4"	0.0	-85.1"
TRAJ: 600 yds. zero	-1.5"	56.0"	96.3"	115.2"	108.1"	70.9"	0.0
VELOCITY (fps)	1500	1338	1204	1101	1026	968	921
ENERGY (ft.-lbs.)	549	437	354	296	257	229	207
TRAJ: 100 yds. zero	-1.5"	0.0	-18.0"	-59.9"	-130.3"	-233.0"	-371.4"
TRAJ: 200 yds. zero	-1.5"	9.0"	0.0	-32.9"	-94.4"	-188.1"	-317.6"
TRAJ: 300 yds. zero	-1.5"	20.0"	22.0"	0.0	-50.5"	-133.2"	-251.7"
TRAJ: 400 yds. zero	-1.5"	32.6"	47.2"	37.8"	0.0	-70.1"	-176.0"
TRAJ: 500 yds. zero	-1.5"	46.6"	75.2"	79.9"	56.1"	0.0	-91.8"
TRAJ: 600 yds. zero	-1.5"	61.9"	105.9"	125.8"	117.3"	76.5"	0.0
VELOCITY (fps)	1400	1254	1138	1053	990	939	896
ENERGY (ft.-lbs.)	479	384	316	271	239	215	196
TRAJ: 100 yds. zero	-1.5"	0.0	-20.6"	-68.0"	-146.3"	-259.3"	-410.4"
TRAJ: 200 yds. zero	-1.5"	10.3"	0.0	-37.1"	-105.1"	-207.8"	-348.5"
TRAJ: 300 yds. zero	-1.5"	22.7"	24.7"	0.0	-55.7"	-146.0"	-274.4"
TRAJ: 400 yds. zero	-1.5"	36.6"	52.6"	41.8"	0.0	-76.4"	-190.9"
TRAJ: 500 yds. zero	-1.5"	51.9"	83.1"	87.6"	61.1"	0.0	-99.2"
TRAJ: 600 yds. zero	-1.5"	68.4"	116.2"	137.2"	127.2"	82.7"	0.0
VELOCITY (fps)	1300	1174	1079	1009	955	910	871
ENERGY (ft.-lbs.)	413	336	284	249	223	202	185
TRAJ: 100 yds. zero	-1.5"	0.0	-23.7"	-77.1"	-164.3"	-288.6"	-453.6"
TRAJ: 200 yds. zero	-1.5"	11.9"	0.0	-41.6"	-116.8"	-229.3"	-382.5"
TRAJ: 300 yds. zero	-1.5"	25.7"	27.7"	0.0	-61.4"	-160.0"	-299.4"
TRAJ: 400 yds. zero	-1.5"	41.1"	58.4"	46.1"	0.0	-83.2"	-207.2"
TRAJ: 500 yds. zero	-1.5"	57.7"	91.7"	96.0"	66.6"	0.0	-107.3"
TRAJ: 600 yds. zero	-1.5"	75.6"	127.5"	149.7"	138.2"	89.5"	0.0
VELOCITY (fps)	1200	1098	1024	967	920	880	844
ENERGY (ft.-lbs.)	352	294	256	228	207	189	174
TRAJ: 100 yds. zero	-1.5"	0.0	-27.3"	-87.5"	-184.5"	-321.9"	-503.2"
TRAJ: 200 yds. zero	-1.5"	13.6"	0.0	-46.6"	-130.0"	-253.7"	-421.4"
TRAJ: 300 yds. zero	-1.5"	29.2"	31.1"	0.0	-67.8"	-176.0"	-328.2"
TRAJ: 400 yds. zero	-1.5"	46.1"	65.0"	50.9"	0.0	-91.2"	-226.5"
TRAJ: 500 yds. zero	-1.5"	64.4"	101.5"	105.6"	73.0"	0.0	-117.0"
TRAJ: 600 yds. zero	-1.5"	83.9"	140.5"	164.1"	151.0"	97.5"	0.0
VELOCITY (fps)	1100	1025	968	921	881	845	812
ENERGY (ft.-lbs.)	295	257	229	207	189	174	161
TRAJ: 100 yds. zero	-1.5"	0.0	-31.5"	-99.9"	-209.1"	-362.6"	-564.1"
TRAJ: 200 yds. zero	-1.5"	15.8"	0.0	-52.7"	-146.1"	-283.8"	-469.6"
TRAJ: 300 yds. zero	-1.5"	33.3"	35.1"	0.0	-75.8"	-196.0"	-364.2"
TRAJ: 400 yds. zero	-1.5"	52.3"	73.0"	56.8"	0.0	-101.3"	-250.5"
TRAJ: 500 yds. zero	-1.5"	72.5"	113.5"	117.6"	81.0"	0.0	-128.9"
TRAJ: 600 yds. zero	-1.5"	94.0"	156.5"	182.1"	167.0"	107.5"	0.0

270 CALIBER (.277" Dia.) 130 GRAIN SPIRE POINT
SECTIONAL DENSITY: .242 BALLISTIC COEFFICIENT: .409

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3146	2907	2680	2464	2259	2063
ENERGY (ft.-lbs.)	3336	2857	2439	2073	1753	1473	1228
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.2"	-19.1"	-35.8"	-59.4"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.1"	-15.1"	-30.8"	-53.3"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.4"	0.0	-8.3"	-22.3"	-43.1"
TRAJ: 400 yds. zero	-1.5"	4.8"	7.6"	6.2"	0.0	-11.9"	-30.7"
TRAJ: 500 yds. zero	-1.5"	7.2"	12.3"	13.4"	9.5"	0.0	-16.4"
TRAJ: 600 yds. zero	-1.5"	9.9"	17.8"	21.5"	20.4"	13.6"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	3052	2818	2596	2384	2182	1990
ENERGY (ft.-lbs.)	3143	2688	2292	1944	1640	1374	1143
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-8.9"	-20.6"	-38.6"	-63.8"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.5"	-16.2"	-33.0"	-57.1"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.7"	0.0	-8.8"	-23.8"	-46.1"
TRAJ: 400 yds. zero	-1.5"	5.2"	8.1"	6.6"	0.0	-12.8"	-32.8"
TRAJ: 500 yds. zero	-1.5"	7.7"	13.2"	14.3"	10.2"	0.0	-17.5"
TRAJ: 600 yds. zero	-1.5"	10.6"	19.0"	23.0"	21.9"	14.6"	0.0
VELOCITY (fps)	3200	2958	2728	2510	2303	2105	1917
ENERGY (ft.-lbs.)	2955	2525	2148	1819	1530	1279	1061
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-9.6"	-22.3"	-41.6"	-68.7"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.9"	-17.4"	-35.4"	-61.2"
TRAJ: 300 yds. zero	-1.5"	3.2"	3.9"	0.0	-9.5"	-25.5"	-49.4"
TRAJ: 400 yds. zero	-1.5"	5.6"	8.7"	7.1"	0.0	-13.7"	-35.2"
TRAJ: 500 yds. zero	-1.5"	8.3"	14.1"	15.3"	10.9"	0.0	-18.8"
TRAJ: 600 yds. zero	-1.5"	11.4"	20.4"	24.7"	23.5"	15.7"	0.0
VELOCITY (fps)	3100	2863	2639	2425	2221	2027	1844
ENERGY (ft.-lbs.)	2774	2366	2009	1697	1424	1186	981
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.5"	-24.2"	-44.9"	-74.1"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.4"	-18.7"	-38.0"	-65.9"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.3"	0.0	-10.2"	-27.4"	-53.1"
TRAJ: 400 yds. zero	-1.5"	6.0"	9.3"	7.6"	0.0	-14.7"	-37.9"
TRAJ: 500 yds. zero	-1.5"	9.0"	15.2"	16.4"	11.8"	0.0	-20.2"
TRAJ: 600 yds. zero	-1.5"	12.4"	22.0"	26.6"	25.2"	16.9"	0.0
VELOCITY (fps)	3000	2768	2549	2339	2139	1950	1771
ENERGY (ft.-lbs.)	2597	2212	1875	1579	1321	1097	905
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.4"	-26.2"	-48.6"	-80.2"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.9"	-20.1"	-41.0"	-71.0"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.6"	0.0	-11.0"	-29.5"	-57.3"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.1"	8.2"	0.0	-15.8"	-40.8"
TRAJ: 500 yds. zero	-1.5"	9.7"	16.4"	17.7"	12.7"	0.0	-21.8"
TRAJ: 600 yds. zero	-1.5"	13.4"	23.7"	28.6"	27.2"	18.2"	0.0
VELOCITY (fps)	2900	2674	2458	2253	2057	1872	1699
ENERGY (ft.-lbs.)	2427	2063	1744	1465	1222	1012	833
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.5"	-28.5"	-52.7"	-86.9"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.5"	-21.8"	-44.3"	-76.8"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.0"	0.0	-11.8"	-31.9"	-61.9"
TRAJ: 400 yds. zero	-1.5"	7.1"	10.9"	8.9"	0.0	-17.1"	-44.2"
TRAJ: 500 yds. zero	-1.5"	10.5"	17.7"	19.1"	13.7"	0.0	-23.6"
TRAJ: 600 yds. zero	-1.5"	14.5"	25.6"	31.0"	29.4"	19.7"	0.0
VELOCITY (fps)	2800	2579	2368	2167	1976	1795	1627
ENERGY (ft.-lbs.)	2263	1919	1618	1355	1126	930	764
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-13.7"	-31.1"	-57.4"	-94.5"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.1"	-23.6"	-48.0"	-83.3"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.4"	0.0	-12.8"	-34.6"	-67.1"
TRAJ: 400 yds. zero	-1.5"	7.8"	11.8"	9.6"	0.0	-18.5"	-47.9"
TRAJ: 500 yds. zero	-1.5"	11.5"	19.2"	20.7"	14.8"	0.0	-25.7"
TRAJ: 600 yds. zero	-1.5"	15.8"	27.8"	33.6"	31.9"	21.4"	0.0
VELOCITY (fps)	2700	2483	2277	2080	1894	1719	1556
ENERGY (ft.-lbs.)	2104	1780	1496	1249	1035	852	699
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-15.0"	-33.9"	-62.6"	-103.1"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-8.8"	-25.6"	-52.2"	-90.6"
TRAJ: 300 yds. zero	-1.5"	5.0"	5.9"	0.0	-13.9"	-37.6"	-73.0"
TRAJ: 400 yds. zero	-1.5"	8.5"	12.8"	10.4"	0.0	-20.2"	-52.2"
TRAJ: 500 yds. zero	-1.5"	12.5"	20.9"	22.5"	16.1"	0.0	-28.0"
TRAJ: 600 yds. zero	-1.5"	17.2"	30.2"	36.5"	34.8"	23.3"	0.0
VELOCITY (fps)	2600	2388	2186	1994	1813	1643	1488
ENERGY (ft.-lbs.)	1951	1646	1379	1148	948	779	639
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-16.5"	-37.2"	-68.5"	-112.7"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.6"	-28.0"	-56.9"	-98.9"
TRAJ: 300 yds. zero	-1.5"	5.5"	6.4"	0.0	-15.2"	-41.0"	-79.7"
TRAJ: 400 yds. zero	-1.5"	9.3"	14.0"	11.4"	0.0	-22.0"	-56.9"
TRAJ: 500 yds. zero	-1.5"	13.7"	22.8"	24.6"	17.6"	0.0	-30.5"
TRAJ: 600 yds. zero	-1.5"	18.8"	33.0"	39.8"	38.0"	25.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2500	2293	2095	1908	1732	1569	1420
ENERGY (ft.-lbs.)	1804	1517	1267	1051	866	710	582
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-18.2"	-40.8"	-75.1"	-123.6"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.5"	-30.6"	-62.3"	-108.2"
TRAJ: 300 yds. zero	-1.5"	6.1"	7.0"	0.0	-16.6"	-44.8"	-87.2"
TRAJ: 400 yds. zero	-1.5"	10.2"	15.3"	12.4"	0.0	-24.1"	-62.3"
TRAJ: 500 yds. zero	-1.5"	15.0"	24.9"	26.9"	19.3"	0.0	-33.5"
TRAJ: 600 yds. zero	-1.5"	20.6"	36.1"	43.6"	41.6"	27.9"	0.0
VELOCITY (fps)	2400	2197	2005	1823	1652	1496	1356
ENERGY (ft.-lbs.)	1662	1394	1160	959	788	646	531
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-20.1"	-45.0"	-82.7"	-136.0"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.5"	-33.6"	-68.4"	-118.8"
TRAJ: 300 yds. zero	-1.5"	6.7"	7.7"	0.0	-18.2"	-49.2"	-95.7"
TRAJ: 400 yds. zero	-1.5"	11.2"	16.8"	13.6"	0.0	-26.4"	-68.5"
TRAJ: 500 yds. zero	-1.5"	16.5"	27.4"	29.5"	21.1"	0.0	-36.8"
TRAJ: 600 yds. zero	-1.5"	22.7"	39.6"	47.9"	45.6"	30.6"	0.0
VELOCITY (fps)	2300	2102	1915	1738	1574	1426	1295
ENERGY (ft.-lbs.)	1527	1275	1058	872	715	586	484
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-22.3"	-49.7"	-91.3"	-150.0"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-12.7"	-37.0"	-75.3"	-130.8"
TRAJ: 300 yds. zero	-1.5"	7.4"	8.5"	0.0	-20.0"	-54.1"	-105.4"
TRAJ: 400 yds. zero	-1.5"	12.4"	18.5"	15.0"	0.0	-29.1"	-75.4"
TRAJ: 500 yds. zero	-1.5"	18.3"	30.1"	32.5"	23.3"	0.0	-40.5"
TRAJ: 600 yds. zero	-1.5"	25.0"	43.6"	52.7"	50.3"	33.7"	0.0
VELOCITY (fps)	2200	2007	1825	1655	1498	1358	1237
ENERGY (ft.-lbs.)	1397	1163	961	790	648	532	442
TRAJ: 100 yds. zero	-1.5"	0.0	-7.2"	-24.8"	-55.1"	-101.1"	-166.0"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-14.0"	-40.8"	-83.2"	-144.5"
TRAJ: 300 yds. zero	-1.5"	8.3"	9.4"	0.0	-22.1"	-59.8"	-116.4"
TRAJ: 400 yds. zero	-1.5"	13.8"	20.4"	16.6"	0.0	-32.1"	-83.3"
TRAJ: 500 yds. zero	-1.5"	20.2"	33.3"	35.9"	25.7"	0.0	-44.7"
TRAJ: 600 yds. zero	-1.5"	27.7"	48.2"	58.2"	55.5"	37.2"	0.0
VELOCITY (fps)	2100	1912	1736	1572	1424	1293	1184
ENERGY (ft.-lbs.)	1273	1056	870	714	585	483	404
TRAJ: 100 yds. zero	-1.5"	0.0	-8.0"	-27.6"	-61.3"	-112.3"	-184.1"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-15.6"	-45.3"	-92.2"	-160.0"
TRAJ: 300 yds. zero	-1.5"	9.2"	10.4"	0.0	-24.5"	-66.2"	-128.8"
TRAJ: 400 yds. zero	-1.5"	15.3"	22.6"	18.4"	0.0	-35.6"	-92.1"
TRAJ: 500 yds. zero	-1.5"	22.5"	36.9"	39.7"	28.5"	0.0	-49.4"
TRAJ: 600 yds. zero	-1.5"	30.7"	53.3"	64.4"	61.4"	41.1"	0.0
VELOCITY (fps)	2000	1818	1648	1492	1353	1233	1136
ENERGY (ft.-lbs.)	1154	954	784	643	528	439	372
TRAJ: 100 yds. zero	-1.5"	0.0	-9.0"	-30.9"	-68.5"	-125.1"	-204.7"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-17.4"	-50.4"	-102.5"	-177.6"
TRAJ: 300 yds. zero	-1.5"	10.3"	11.6"	0.0	-27.2"	-73.6"	-142.8"
TRAJ: 400 yds. zero	-1.5"	17.1"	25.2"	20.4"	0.0	-39.5"	-102.0"
TRAJ: 500 yds. zero	-1.5"	25.0"	41.0"	44.1"	31.6"	0.0	-54.6"
TRAJ: 600 yds. zero	-1.5"	34.1"	59.2"	71.4"	68.0"	45.5"	0.0
VELOCITY (fps)	1900	1724	1562	1414	1285	1177	1093
ENERGY (ft.-lbs.)	1042	858	704	577	476	400	345
TRAJ: 100 yds. zero	-1.5"	0.0	-10.2"	-34.7"	-76.7"	-139.8"	-228.0"
TRAJ: 200 yds. zero	-1.5"	5.1"	0.0	-19.4"	-56.2"	-114.2"	-197.3"
TRAJ: 300 yds. zero	-1.5"	11.6"	12.9"	0.0	-30.4"	-81.9"	-158.5"
TRAJ: 400 yds. zero	-1.5"	19.2"	28.1"	22.8"	0.0	-43.9"	-112.9"
TRAJ: 500 yds. zero	-1.5"	28.0"	45.7"	49.1"	35.1"	0.0	-60.2"
TRAJ: 600 yds. zero	-1.5"	38.0"	65.8"	79.2"	75.3"	50.2"	0.0
VELOCITY (fps)	1800	1631	1477	1339	1221	1127	1055
ENERGY (ft.-lbs.)	935	768	630	518	431	366	321
TRAJ: 100 yds. zero	-1.5"	0.0	-11.6"	-39.2"	-86.2"	-156.5"	-254.1"
TRAJ: 200 yds. zero	-1.5"	5.8"	0.0	-21.8"	-63.0"	-127.6"	-219.3"
TRAJ: 300 yds. zero	-1.5"	13.1"	14.5"	0.0	-34.0"	-91.3"	-175.8"
TRAJ: 400 yds. zero	-1.5"	21.5"	31.5"	25.5"	0.0	-48.8"	-124.8"
TRAJ: 500 yds. zero	-1.5"	31.3"	51.0"	54.8"	39.1"	0.0	-66.3"
TRAJ: 600 yds. zero	-1.5"	42.4"	73.1"	87.9"	83.2"	55.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1539	1394	1268	1163	1082	1021
ENERGY (ft.-lbs.)	834	684	561	464	391	338	301
TRAJ: 100 yds. zero	-1.5"	0.0	-13.2"	-44.3"	-97.1"	-175.6"	-283.3"
TRAJ: 200 yds. zero	-1.5"	6.6"	0.0	-24.5"	-70.7"	-142.6"	-243.6"
TRAJ: 300 yds. zero	-1.5"	14.8"	16.3"	0.0	-38.0"	-101.7"	-194.6"
TRAJ: 400 yds. zero	-1.5"	24.3"	35.4"	28.5"	0.0	-54.2"	-137.6"
TRAJ: 500 yds. zero	-1.5"	35.1"	57.0"	61.0"	43.3"	0.0	-72.6"
TRAJ: 600 yds. zero	-1.5"	47.2"	81.2"	97.3"	91.7"	60.5"	0.0
VELOCITY (fps)	1600	1449	1314	1201	1111	1043	989
ENERGY (ft.-lbs.)	739	606	499	416	356	314	282
TRAJ: 100 yds. zero	-1.5"	0.0	-15.1"	-50.4"	-109.7"	-197.0"	-315.6"
TRAJ: 200 yds. zero	-1.5"	7.6"	0.0	-27.7"	-79.5"	-159.3"	-270.3"
TRAJ: 300 yds. zero	-1.5"	16.8"	18.5"	0.0	-42.6"	-113.1"	-214.9"
TRAJ: 400 yds. zero	-1.5"	27.4"	39.8"	31.9"	0.0	-59.9"	-151.1"
TRAJ: 500 yds. zero	-1.5"	39.4"	63.7"	67.9"	47.9"	0.0	-79.2"
TRAJ: 600 yds. zero	-1.5"	52.6"	90.1"	107.5"	100.7"	66.0"	0.0
VELOCITY (fps)	1500	1359	1238	1140	1065	1007	960
ENERGY (ft.-lbs.)	649	533	443	375	327	293	266
TRAJ: 100 yds. zero	-1.5"	0.0	-17.3"	-57.4"	-124.1"	-221.0"	-351.3"
TRAJ: 200 yds. zero	-1.5"	8.7"	0.0	-31.3"	-89.4"	-177.7"	-299.3"
TRAJ: 300 yds. zero	-1.5"	19.1"	20.9"	0.0	-47.6"	-125.4"	-236.6"
TRAJ: 400 yds. zero	-1.5"	31.0"	44.7"	35.7"	0.0	-66.0"	-165.3"
TRAJ: 500 yds. zero	-1.5"	44.2"	71.1"	75.3"	52.8"	0.0	-86.1"
TRAJ: 600 yds. zero	-1.5"	58.6"	99.8"	118.3"	110.2"	71.8"	0.0
VELOCITY (fps)	1400	1273	1167	1085	1023	973	932
ENERGY (ft.-lbs.)	566	467	393	340	302	273	251
TRAJ: 100 yds. zero	-1.5"	0.0	-20.0"	-65.4"	-140.2"	-247.6"	-390.7"
TRAJ: 200 yds. zero	-1.5"	10.0"	0.0	-35.5"	-100.3"	-197.7"	-330.8"
TRAJ: 300 yds. zero	-1.5"	21.8"	23.7"	0.0	-53.0"	-138.6"	-259.9"
TRAJ: 400 yds. zero	-1.5"	35.1"	50.1"	39.7"	0.0	-72.4"	-180.4"
TRAJ: 500 yds. zero	-1.5"	49.5"	79.1"	83.1"	57.9"	0.0	-93.6"
TRAJ: 600 yds. zero	-1.5"	65.1"	110.3"	129.9"	120.3"	78.0"	0.0
VELOCITY (fps)	1300	1189	1102	1036	984	941	903
ENERGY (ft.-lbs.)	488	408	351	310	279	255	236
TRAJ: 100 yds. zero	-1.5"	0.0	-23.1"	-74.7"	-158.4"	-277.3"	-434.6"
TRAJ: 200 yds. zero	-1.5"	11.5"	0.0	-40.1"	-112.2"	-219.6"	-365.4"
TRAJ: 300 yds. zero	-1.5"	24.9"	26.7"	0.0	-58.8"	-152.9"	-285.3"
TRAJ: 400 yds. zero	-1.5"	39.6"	56.1"	44.1"	0.0	-79.3"	-197.1"
TRAJ: 500 yds. zero	-1.5"	55.5"	87.8"	91.7"	63.5"	0.0	-101.9"
TRAJ: 600 yds. zero	-1.5"	72.4"	121.8"	142.6"	131.4"	84.9"	0.0
VELOCITY (fps)	1200	1110	1042	989	945	907	874
ENERGY (ft.-lbs.)	416	356	313	282	258	238	220
TRAJ: 100 yds. zero	-1.5"	0.0	-26.6"	-85.2"	-178.9"	-311.0"	-484.6"
TRAJ: 200 yds. zero	-1.5"	13.3"	0.0	-45.2"	-125.6"	-244.4"	-404.7"
TRAJ: 300 yds. zero	-1.5"	28.4"	30.1"	0.0	-65.4"	-169.1"	-314.3"
TRAJ: 400 yds. zero	-1.5"	44.7"	62.8"	49.0"	0.0	-87.4"	-216.2"
TRAJ: 500 yds. zero	-1.5"	62.2"	97.8"	101.5"	69.9"	0.0	-111.3"
TRAJ: 600 yds. zero	-1.5"	80.8"	134.9"	157.1"	144.1"	92.8"	0.0
VELOCITY (fps)	1100	1034	983	940	902	869	839
ENERGY (ft.-lbs.)	349	309	279	255	235	218	203
TRAJ: 100 yds. zero	-1.5"	0.0	-30.9"	-97.7"	-203.7"	-351.9"	-545.7"
TRAJ: 200 yds. zero	-1.5"	15.5"	0.0	-51.3"	-141.8"	-274.6"	-452.8"
TRAJ: 300 yds. zero	-1.5"	32.6"	34.2"	0.0	-73.4"	-189.0"	-350.2"
TRAJ: 400 yds. zero	-1.5"	50.9"	70.9"	55.1"	0.0	-97.3"	-240.1"
TRAJ: 500 yds. zero	-1.5"	70.4"	109.8"	113.4"	77.8"	0.0	-123.4"
TRAJ: 600 yds. zero	-1.5"	90.9"	150.9"	175.1"	160.1"	102.8"	0.0
VELOCITY (fps)	1000	954	915	881	850	821	794
ENERGY (ft.-lbs.)	289	263	242	224	208	194	182
TRAJ: 100 yds. zero	-1.5"	0.0	-36.6"	-114.6"	-237.3"	-407.9"	-629.9"
TRAJ: 200 yds. zero	-1.5"	18.3"	0.0	-59.7"	-164.1"	-316.4"	-520.1"
TRAJ: 300 yds. zero	-1.5"	38.2"	39.8"	0.0	-84.5"	-216.9"	-400.7"
TRAJ: 400 yds. zero	-1.5"	59.3"	82.0"	63.4"	0.0	-111.3"	-274.0"
TRAJ: 500 yds. zero	-1.5"	81.6"	126.5"	130.1"	89.0"	0.0	-140.5"
TRAJ: 600 yds. zero	-1.5"	105.0"	173.4"	200.4"	182.7"	117.1"	0.0

270 CALIBER (.277" Dia.) 140 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .261 BALLISTIC COEFFICIENT: .486

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	3090	2891	2700	2517	2341	2172
ENERGY (ft.-lbs.)	3385	2968	2597	2265	1969	1703	1467
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.4"	-19.5"	-36.1"	-59.0"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.2"	-15.2"	-30.7"	-52.6"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.5"	0.0	-8.3"	-22.0"	-42.1"
TRAJ: 400 yds. zero	-1.5"	4.9"	7.6"	6.2"	0.0	-11.7"	-29.7"
TRAJ: 500 yds. zero	-1.5"	7.2"	12.3"	13.2"	9.3"	0.0	-15.7"
TRAJ: 600 yds. zero	-1.5"	9.8"	17.5"	21.1"	19.8"	13.1"	0.0
VELOCITY (fps)	3200	2995	2800	2613	2433	2261	2095
ENERGY (ft.-lbs.)	3183	2788	2436	2122	1840	1589	1364
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.2"	-21.1"	-38.9"	-63.5"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.6"	-16.4"	-32.9"	-56.4"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.8"	0.0	-8.8"	-23.6"	-45.1"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.2"	6.6"	0.0	-12.5"	-31.8"
TRAJ: 500 yds. zero	-1.5"	7.8"	13.2"	14.1"	10.0"	0.0	-16.8"
TRAJ: 600 yds. zero	-1.5"	10.6"	18.8"	22.6"	21.2"	14.0"	0.0
VELOCITY (fps)	3100	2900	2709	2525	2349	2180	2018
ENERGY (ft.-lbs.)	2987	2614	2280	1982	1715	1477	1266
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.0"	-22.9"	-42.0"	-68.5"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.1"	-17.6"	-35.4"	-60.5"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.0"	0.0	-9.5"	-25.3"	-48.4"
TRAJ: 400 yds. zero	-1.5"	5.7"	8.8"	7.1"	0.0	-13.4"	-34.2"
TRAJ: 500 yds. zero	-1.5"	8.4"	14.2"	15.2"	10.7"	0.0	-18.1"
TRAJ: 600 yds. zero	-1.5"	11.4"	20.2"	24.2"	22.8"	15.1"	0.0
VELOCITY (fps)	3000	2804	2617	2437	2265	2099	1941
ENERGY (ft.-lbs.)	2797	2444	2129	1846	1594	1370	1171
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-10.9"	-24.8"	-45.4"	-74.0"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.5"	-18.9"	-38.1"	-65.2"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.4"	0.0	-10.2"	-27.2"	-52.1"
TRAJ: 400 yds. zero	-1.5"	6.2"	9.5"	7.7"	0.0	-14.4"	-36.8"
TRAJ: 500 yds. zero	-1.5"	9.1"	15.3"	16.3"	11.6"	0.0	-19.5"
TRAJ: 600 yds. zero	-1.5"	12.3"	21.7"	26.1"	24.5"	16.2"	0.0
VELOCITY (fps)	2900	2709	2525	2349	2180	2018	1863
ENERGY (ft.-lbs.)	2614	2280	1982	1715	1477	1266	1079
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-11.9"	-26.9"	-49.3"	-80.2"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.1"	-20.5"	-41.2"	-70.4"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.7"	0.0	-11.0"	-29.4"	-56.3"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.2"	8.3"	0.0	-15.6"	-39.7"
TRAJ: 500 yds. zero	-1.5"	9.9"	16.5"	17.6"	12.5"	0.0	-21.0"
TRAJ: 600 yds. zero	-1.5"	13.4"	23.5"	28.1"	26.5"	17.5"	0.0
VELOCITY (fps)	2800	2613	2433	2261	2095	1937	1787
ENERGY (ft.-lbs.)	2437	2122	1840	1589	1365	1166	992
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.1"	-29.4"	-53.6"	-87.1"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.7"	-22.2"	-44.6"	-76.3"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.1"	0.0	-11.9"	-31.8"	-60.9"
TRAJ: 400 yds. zero	-1.5"	7.3"	11.1"	8.9"	0.0	-16.9"	-43.0"
TRAJ: 500 yds. zero	-1.5"	10.7"	17.8"	19.1"	13.5"	0.0	-22.8"
TRAJ: 600 yds. zero	-1.5"	14.5"	25.4"	30.5"	28.7"	19.0"	0.0
VELOCITY (fps)	2700	2517	2341	2172	2011	1856	1710
ENERGY (ft.-lbs.)	2266	1969	1704	1467	1257	1071	909
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.3"	-32.1"	-58.4"	-94.8"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.3"	-24.1"	-48.4"	-82.9"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.6"	0.0	-12.9"	-34.5"	-66.2"
TRAJ: 400 yds. zero	-1.5"	8.0"	12.0"	9.7"	0.0	-18.3"	-46.8"
TRAJ: 500 yds. zero	-1.5"	11.7"	19.4"	20.7"	14.7"	0.0	-24.8"
TRAJ: 600 yds. zero	-1.5"	15.8"	27.6"	33.1"	31.2"	20.6"	0.0
VELOCITY (fps)	2600	2421	2249	2084	1926	1776	1635
ENERGY (ft.-lbs.)	2101	1822	1572	1350	1153	981	831
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-15.8"	-35.1"	-63.8"	-103.6"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.1"	-26.2"	-52.7"	-90.3"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.1"	0.0	-14.1"	-37.6"	-72.1"
TRAJ: 400 yds. zero	-1.5"	8.8"	13.1"	10.6"	0.0	-20.0"	-51.0"
TRAJ: 500 yds. zero	-1.5"	12.8"	21.1"	22.5"	16.0"	0.0	-27.0"
TRAJ: 600 yds. zero	-1.5"	17.3"	30.1"	36.0"	34.0"	22.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2500	2325	2157	1996	1842	1697	1561
ENERGY (ft.-lbs.)	1943	1680	1446	1238	1055	895	757
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-17.4"	-38.5"	-70.0"	-113.5"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.0"	-28.7"	-57.6"	-98.7"
TRAJ: 300 yds. zero	-1.5"	5.8"	6.6"	0.0	-15.4"	-41.0"	-78.8"
TRAJ: 400 yds. zero	-1.5"	9.6"	14.3"	11.5"	0.0	-21.8"	-55.7"
TRAJ: 500 yds. zero	-1.5"	14.0"	23.0"	24.6"	17.4"	0.0	-29.6"
TRAJ: 600 yds. zero	-1.5"	18.9"	32.9"	39.4"	37.1"	24.6"	0.0
VELOCITY (fps)	2400	2229	2065	1908	1759	1619	1489
ENERGY (ft.-lbs.)	1790	1544	1325	1131	962	814	689
TRAJ: 100 yds. zero	-1.5"	0.0	-5.5"	-19.2"	-42.4"	-76.9"	-124.8"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-10.9"	-31.4"	-63.2"	-108.2"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.3"	0.0	-16.9"	-45.0"	-86.4"
TRAJ: 400 yds. zero	-1.5"	10.6"	15.7"	12.6"	0.0	-23.9"	-61.1"
TRAJ: 500 yds. zero	-1.5"	15.4"	25.3"	27.0"	19.1"	0.0	-32.4"
TRAJ: 600 yds. zero	-1.5"	20.8"	36.1"	43.2"	40.7"	27.0"	0.0
VELOCITY (fps)	2300	2133	1973	1821	1677	1542	1419
ENERGY (ft.-lbs.)	1644	1414	1210	1030	874	739	625
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-21.3"	-46.9"	-84.9"	-137.6"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.0"	-34.6"	-69.5"	-119.1"
TRAJ: 300 yds. zero	-1.5"	7.1"	8.0"	0.0	-18.5"	-49.5"	-95.1"
TRAJ: 400 yds. zero	-1.5"	11.7"	17.3"	13.9"	0.0	-26.3"	-67.3"
TRAJ: 500 yds. zero	-1.5"	17.0"	27.8"	29.7"	21.0"	0.0	-35.7"
TRAJ: 600 yds. zero	-1.5"	22.9"	39.7"	47.5"	44.8"	29.8"	0.0
VELOCITY (fps)	2200	2037	1881	1734	1595	1467	1351
ENERGY (ft.-lbs.)	1504	1290	1100	934	791	669	567
TRAJ: 100 yds. zero	-1.5"	0.0	-6.9"	-23.6"	-51.9"	-93.9"	-152.2"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-13.3"	-38.2"	-76.7"	-131.5"
TRAJ: 300 yds. zero	-1.5"	7.9"	8.9"	0.0	-20.4"	-54.6"	-104.9"
TRAJ: 400 yds. zero	-1.5"	13.0"	19.1"	15.3"	0.0	-29.0"	-74.3"
TRAJ: 500 yds. zero	-1.5"	18.8"	30.7"	32.7"	23.2"	0.0	-39.4"
TRAJ: 600 yds. zero	-1.5"	25.4"	43.8"	52.5"	49.5"	32.8"	0.0
VELOCITY (fps)	2100	1941	1791	1649	1516	1395	1287
ENERGY (ft.-lbs.)	1371	1172	997	845	715	605	515
TRAJ: 100 yds. zero	-1.5"	0.0	-7.7"	-26.3"	-57.8"	-104.4"	-168.9"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-14.7"	-42.3"	-85.0"	-145.6"
TRAJ: 300 yds. zero	-1.5"	8.8"	9.8"	0.0	-22.6"	-60.5"	-116.2"
TRAJ: 400 yds. zero	-1.5"	14.4"	21.1"	17.0"	0.0	-32.2"	-82.2"
TRAJ: 500 yds. zero	-1.5"	20.9"	34.0"	36.3"	25.7"	0.0	-43.6"
TRAJ: 600 yds. zero	-1.5"	28.1"	48.5"	58.1"	54.8"	36.4"	0.0
VELOCITY (fps)	2000	1846	1701	1565	1439	1326	1227
ENERGY (ft.-lbs.)	1243	1059	899	761	644	546	468
TRAJ: 100 yds. zero	-1.5"	0.0	-8.7"	-29.5"	-64.5"	-116.3"	-188.0"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-16.4"	-47.0"	-94.5"	-161.8"
TRAJ: 300 yds. zero	-1.5"	9.8"	10.9"	0.0	-25.2"	-67.2"	-129.0"
TRAJ: 400 yds. zero	-1.5"	16.1"	23.5"	18.9"	0.0	-35.7"	-91.3"
TRAJ: 500 yds. zero	-1.5"	23.3"	37.8"	40.3"	28.6"	0.0	-48.4"
TRAJ: 600 yds. zero	-1.5"	31.3"	53.9"	64.5"	60.8"	40.3"	0.0
VELOCITY (fps)	1900	1751	1612	1482	1365	1261	1172
ENERGY (ft.-lbs.)	1122	953	807	683	579	494	427
TRAJ: 100 yds. zero	-1.5"	0.0	-9.9"	-33.1"	-72.2"	-130.0"	-209.8"
TRAJ: 200 yds. zero	-1.5"	4.9"	0.0	-18.3"	-52.5"	-105.4"	-180.3"
TRAJ: 300 yds. zero	-1.5"	11.0"	12.2"	0.0	-28.1"	-74.9"	-143.6"
TRAJ: 400 yds. zero	-1.5"	18.1"	26.3"	21.1"	0.0	-39.8"	-101.5"
TRAJ: 500 yds. zero	-1.5"	26.0"	42.2"	44.9"	31.8"	0.0	-53.8"
TRAJ: 600 yds. zero	-1.5"	35.0"	60.1"	71.8"	67.7"	44.8"	0.0
VELOCITY (fps)	1800	1657	1524	1402	1294	1200	1123
ENERGY (ft.-lbs.)	1007	854	722	611	520	447	392
TRAJ: 100 yds. zero	-1.5"	0.0	-11.2"	-37.4"	-81.2"	-145.9"	-234.8"
TRAJ: 200 yds. zero	-1.5"	5.6"	0.0	-20.6"	-58.9"	-118.0"	-201.3"
TRAJ: 300 yds. zero	-1.5"	12.5"	13.7"	0.0	-31.4"	-83.7"	-160.1"
TRAJ: 400 yds. zero	-1.5"	20.3"	29.4"	23.6"	0.0	-44.4"	-113.0"
TRAJ: 500 yds. zero	-1.5"	29.2"	47.2"	50.2"	35.5"	0.0	-59.7"
TRAJ: 600 yds. zero	-1.5"	39.1"	67.1"	80.0"	75.3"	49.7"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1564	1438	1325	1227	1145	1079
ENERGY (ft.-lbs.)	898	760	643	546	468	407	362
TRAJ: 100 yds. zero	-1.5"	0.0	-12.7"	-42.3"	-91.7"	-164.2"	-263.2"
TRAJ: 200 yds. zero	-1.5"	6.4"	0.0	-23.2"	-66.2"	-132.4"	-225.0"
TRAJ: 300 yds. zero	-1.5"	14.1"	15.5"	0.0	-35.3"	-93.7"	-178.6"
TRAJ: 400 yds. zero	-1.5"	22.9"	33.1"	26.5"	0.0	-49.6"	-125.6"
TRAJ: 500 yds. zero	-1.5"	32.8"	52.9"	56.2"	39.7"	0.0	-66.1"
TRAJ: 600 yds. zero	-1.5"	43.9"	75.0"	89.3"	83.8"	55.1"	0.0
VELOCITY (fps)	1600	1472	1355	1252	1165	1095	1040
ENERGY (ft.-lbs.)	796	673	571	487	422	373	336
TRAJ: 100 yds. zero	-1.5"	0.0	-14.6"	-48.1"	-103.8"	-185.1"	-295.1"
TRAJ: 200 yds. zero	-1.5"	7.3"	0.0	-26.3"	-74.7"	-148.7"	-251.4"
TRAJ: 300 yds. zero	-1.5"	16.0"	17.5"	0.0	-39.7"	-105.0"	-198.9"
TRAJ: 400 yds. zero	-1.5"	26.0"	37.3"	29.8"	0.0	-55.4"	-139.4"
TRAJ: 500 yds. zero	-1.5"	37.0"	59.5"	63.0"	44.3"	0.0	-73.0"
TRAJ: 600 yds. zero	-1.5"	49.2"	83.8"	99.4"	92.9"	60.8"	0.0
VELOCITY (fps)	1500	1381	1274	1184	1110	1051	1004
ENERGY (ft.-lbs.)	699	592	505	436	383	344	313
TRAJ: 100 yds. zero	-1.5"	0.0	-16.8"	-54.9"	-117.9"	-208.9"	-331.0"
TRAJ: 200 yds. zero	-1.5"	8.4"	0.0	-29.8"	-84.4"	-167.0"	-280.7"
TRAJ: 300 yds. zero	-1.5"	18.3"	19.9"	0.0	-44.7"	-117.4"	-221.1"
TRAJ: 400 yds. zero	-1.5"	29.5"	42.2"	33.5"	0.0	-61.6"	-154.1"
TRAJ: 500 yds. zero	-1.5"	41.8"	66.8"	70.4"	49.2"	0.0	-80.3"
TRAJ: 600 yds. zero	-1.5"	55.2"	93.6"	110.5"	102.7"	66.9"	0.0
VELOCITY (fps)	1400	1292	1198	1121	1060	1012	971
ENERGY (ft.-lbs.)	609	518	446	391	350	318	293
TRAJ: 100 yds. zero	-1.5"	0.0	-19.4"	-62.9"	-134.0"	-235.7"	-370.7"
TRAJ: 200 yds. zero	-1.5"	9.7"	0.0	-33.9"	-95.3"	-187.3"	-312.7"
TRAJ: 300 yds. zero	-1.5"	21.0"	22.6"	0.0	-50.1"	-130.9"	-244.9"
TRAJ: 400 yds. zero	-1.5"	33.5"	47.6"	37.6"	0.0	-68.2"	-169.8"
TRAJ: 500 yds. zero	-1.5"	47.1"	74.9"	78.5"	54.6"	0.0	-87.9"
TRAJ: 600 yds. zero	-1.5"	61.8"	104.2"	122.5"	113.2"	73.2"	0.0
VELOCITY (fps)	1300	1205	1127	1065	1015	974	939
ENERGY (ft.-lbs.)	525	451	395	353	320	295	274
TRAJ: 100 yds. zero	-1.5"	0.0	-22.4"	-72.1"	-152.3"	-265.8"	-415.2"
TRAJ: 200 yds. zero	-1.5"	11.2"	0.0	-38.5"	-107.5"	-209.8"	-348.0"
TRAJ: 300 yds. zero	-1.5"	24.0"	25.7"	0.0	-56.1"	-145.6"	-270.9"
TRAJ: 400 yds. zero	-1.5"	38.1"	53.7"	42.1"	0.0	-75.4"	-186.7"
TRAJ: 500 yds. zero	-1.5"	53.2"	83.9"	87.4"	60.3"	0.0	-96.2"
TRAJ: 600 yds. zero	-1.5"	69.2"	116.0"	135.5"	124.5"	80.2"	0.0
VELOCITY (fps)	1200	1123	1062	1013	972	937	905
ENERGY (ft.-lbs.)	448	392	350	319	294	273	255
TRAJ: 100 yds. zero	-1.5"	0.0	-26.0"	-82.8"	-173.2"	-300.1"	-466.0"
TRAJ: 200 yds. zero	-1.5"	13.0"	0.0	-43.8"	-121.2"	-235.0"	-387.9"
TRAJ: 300 yds. zero	-1.5"	27.6"	29.2"	0.0	-62.8"	-162.1"	-300.4"
TRAJ: 400 yds. zero	-1.5"	43.3"	60.6"	47.1"	0.0	-83.5"	-206.1"
TRAJ: 500 yds. zero	-1.5"	60.0"	94.0"	97.3"	66.8"	0.0	-105.9"
TRAJ: 600 yds. zero	-1.5"	77.7"	129.3"	150.2"	137.4"	88.2"	0.0
VELOCITY (fps)	1100	1044	998	959	925	895	868
ENERGY (ft.-lbs.)	376	338	309	286	266	249	234
TRAJ: 100 yds. zero	-1.5"	0.0	-30.4"	-95.6"	-198.4"	-341.5"	-527.6"
TRAJ: 200 yds. zero	-1.5"	15.2"	0.0	-50.0"	-137.7"	-265.6"	-436.4"
TRAJ: 300 yds. zero	-1.5"	31.9"	33.3"	0.0	-71.0"	-182.2"	-336.4"
TRAJ: 400 yds. zero	-1.5"	49.6"	68.8"	53.2"	0.0	-93.5"	-229.9"
TRAJ: 500 yds. zero	-1.5"	68.3"	106.2"	109.3"	74.8"	0.0	-117.7"
TRAJ: 600 yds. zero	-1.5"	87.9"	145.5"	168.2"	153.3"	98.1"	0.0
VELOCITY (fps)	1000	961	927	897	869	843	819
ENERGY (ft.-lbs.)	311	287	267	250	235	221	209
TRAJ: 100 yds. zero	-1.5"	0.0	-36.1"	-112.6"	-232.1"	-397.7"	-611.6"
TRAJ: 200 yds. zero	-1.5"	18.0"	0.0	-58.4"	-159.9"	-307.4"	-503.3"
TRAJ: 300 yds. zero	-1.5"	37.5"	38.9"	0.0	-82.0"	-210.0"	-386.5"
TRAJ: 400 yds. zero	-1.5"	58.0"	80.0"	61.5"	0.0	-107.5"	-263.4"
TRAJ: 500 yds. zero	-1.5"	79.5"	123.0"	126.0"	86.0"	0.0	-134.4"
TRAJ: 600 yds. zero	-1.5"	101.9"	167.8"	193.2"	175.6"	112.0"	0.0

270 CALIBER (.277" Dia.) 150 GRAIN SPIRE POINT
SECTIONAL DENSITY: .279 BALLISTIC COEFFICIENT: .462

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2985	2780	2584	2397	2217	2045
ENERGY (ft.-lbs.)	3410	2967	2574	2224	1913	1637	1393
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.3"	-21.4"	-39.6"	-64.9"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.7"	-16.6"	-33.6"	-57.6"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.8"	0.0	-9.0"	-24.1"	-46.2"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.3"	6.8"	0.0	-12.8"	-32.7"
TRAJ: 500 yds. zero	-1.5"	7.9"	13.4"	14.5"	10.3"	0.0	-17.3"
TRAJ: 600 yds. zero	-1.5"	10.8"	19.2"	23.1"	21.8"	14.4"	0.0
VELOCITY (fps)	3100	2890	2689	2497	2313	2137	1969
ENERGY (ft.-lbs.)	3200	2781	2408	2077	1782	1521	1291
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.1"	-23.2"	-42.8"	-70.0"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.1"	-17.9"	-36.1"	-61.9"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.1"	0.0	-9.7"	-25.9"	-49.7"
TRAJ: 400 yds. zero	-1.5"	5.8"	8.9"	7.3"	0.0	-13.8"	-35.1"
TRAJ: 500 yds. zero	-1.5"	8.6"	14.4"	15.5"	11.0"	0.0	-18.6"
TRAJ: 600 yds. zero	-1.5"	11.7"	20.6"	24.8"	23.4"	15.5"	0.0
VELOCITY (fps)	3000	2794	2598	2410	2230	2057	1893
ENERGY (ft.-lbs.)	2997	2600	2248	1934	1656	1409	1193
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.1"	-25.2"	-46.3"	-75.6"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.6"	-19.3"	-38.9"	-66.7"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.4"	0.0	-10.4"	-27.8"	-53.5"
TRAJ: 400 yds. zero	-1.5"	6.3"	9.6"	7.8"	0.0	-14.8"	-37.9"
TRAJ: 500 yds. zero	-1.5"	9.3"	15.6"	16.7"	11.9"	0.0	-20.1"
TRAJ: 600 yds. zero	-1.5"	12.6"	22.2"	26.7"	25.2"	16.7"	0.0
VELOCITY (fps)	2900	2699	2507	2322	2146	1977	1817
ENERGY (ft.-lbs.)	2801	2426	2092	1796	1533	1302	1099
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.1"	-27.4"	-50.2"	-81.9"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.2"	-20.8"	-42.0"	-72.1"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.2"	-30.0"	-57.8"
TRAJ: 400 yds. zero	-1.5"	6.8"	10.4"	8.4"	0.0	-16.0"	-40.9"
TRAJ: 500 yds. zero	-1.5"	10.0"	16.8"	18.0"	12.8"	0.0	-21.7"
TRAJ: 600 yds. zero	-1.5"	13.7"	24.0"	28.9"	27.3"	18.1"	0.0
VELOCITY (fps)	2800	2603	2415	2235	2062	1897	1741
ENERGY (ft.-lbs.)	2611	2257	1942	1663	1416	1199	1010
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.2"	-29.8"	-54.6"	-89.0"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.8"	-22.5"	-45.5"	-78.1"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.2"	0.0	-12.2"	-32.5"	-62.6"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.3"	9.1"	0.0	-17.3"	-44.3"
TRAJ: 500 yds. zero	-1.5"	10.9"	18.2"	19.5"	13.9"	0.0	-23.5"
TRAJ: 600 yds. zero	-1.5"	14.8"	26.0"	31.3"	29.5"	19.6"	0.0
VELOCITY (fps)	2700	2508	2323	2147	1978	1818	1667
ENERGY (ft.-lbs.)	2428	2094	1798	1535	1303	1100	925
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.5"	-32.6"	-59.5"	-97.0"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.5"	-24.5"	-49.4"	-84.9"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.6"	0.0	-13.2"	-35.3"	-68.0"
TRAJ: 400 yds. zero	-1.5"	8.1"	12.2"	9.9"	0.0	-18.8"	-48.2"
TRAJ: 500 yds. zero	-1.5"	11.9"	19.8"	21.2"	15.0"	0.0	-25.6"
TRAJ: 600 yds. zero	-1.5"	16.2"	28.3"	34.0"	32.1"	21.3"	0.0
VELOCITY (fps)	2600	2412	2232	2059	1894	1739	1593
ENERGY (ft.-lbs.)	2251	1937	1658	1412	1195	1007	845
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.0"	-35.7"	-65.1"	-106.0"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.2"	-26.7"	-53.8"	-92.6"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.2"	0.0	-14.4"	-38.5"	-74.1"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.3"	10.8"	0.0	-20.5"	-52.5"
TRAJ: 500 yds. zero	-1.5"	13.0"	21.5"	23.1"	16.4"	0.0	-27.9"
TRAJ: 600 yds. zero	-1.5"	17.7"	30.9"	37.0"	35.0"	23.3"	0.0
VELOCITY (fps)	2500	2316	2140	1971	1811	1661	1521
ENERGY (ft.-lbs.)	2081	1786	1525	1294	1093	918	770
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-17.6"	-39.2"	-71.3"	-116.2"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.1"	-29.2"	-58.9"	-101.2"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.7"	0.0	-15.7"	-42.0"	-81.0"
TRAJ: 400 yds. zero	-1.5"	9.8"	14.6"	11.8"	0.0	-22.4"	-57.5"
TRAJ: 500 yds. zero	-1.5"	14.3"	23.5"	25.2"	17.9"	0.0	-30.6"
TRAJ: 600 yds. zero	-1.5"	19.4"	33.7"	40.5"	38.3"	25.5"	0.0

270 CALIBER (.277" Dia.) 150 GRAIN ROUND NOSE
SECTIONAL DENSITY: .279 BALLISTIC COEFFICIENT: .269

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2837	2502	2190	1902	1640	1410
ENERGY (ft.-lbs.)	3410	2680	2084	1598	1205	896	662
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-11.3"	-27.0"	-52.4"	-90.9"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.0"	-21.3"	-45.3"	-82.3"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.7"	0.0	-12.0"	-33.6"	-68.3"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.6"	9.0"	0.0	-18.7"	-50.4"
TRAJ: 500 yds. zero	-1.5"	10.5"	18.1"	20.2"	14.9"	0.0	-28.0"
TRAJ: 600 yds. zero	-1.5"	15.1"	27.4"	34.2"	33.6"	23.3"	0.0
VELOCITY (fps)	3100	2745	2416	2111	1829	1575	1356
ENERGY (ft.-lbs.)	3200	2509	1944	1484	1114	826	612
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-12.3"	-29.2"	-56.7"	-98.3"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.6"	-23.0"	-48.9"	-88.9"
TRAJ: 300 yds. zero	-1.5"	4.1"	5.0"	0.0	-12.9"	-36.3"	-73.8"
TRAJ: 400 yds. zero	-1.5"	7.3"	11.5"	9.7"	0.0	-20.2"	-54.5"
TRAJ: 500 yds. zero	-1.5"	11.3"	19.5"	21.8"	16.1"	0.0	-30.3"
TRAJ: 600 yds. zero	-1.5"	16.4"	29.6"	36.9"	36.3"	25.3"	0.0
VELOCITY (fps)	3000	2653	2331	2032	1757	1511	1303
ENERGY (ft.-lbs.)	2997	2343	1809	1375	1028	761	565
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.4"	-31.8"	-61.5"	-106.7"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.2"	-24.8"	-52.9"	-96.3"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.4"	0.0	-13.9"	-39.2"	-80.0"
TRAJ: 400 yds. zero	-1.5"	7.9"	12.4"	10.4"	0.0	-21.8"	-59.1"
TRAJ: 500 yds. zero	-1.5"	12.3"	21.1"	23.5"	17.5"	0.0	-32.9"
TRAJ: 600 yds. zero	-1.5"	17.8"	32.1"	40.0"	39.4"	27.4"	0.0
VELOCITY (fps)	2900	2560	2245	1952	1685	1449	1253
ENERGY (ft.-lbs.)	2801	2183	1678	1269	945	699	523
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.6"	-34.6"	-66.9"	-116.1"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.9"	-26.9"	-57.3"	-104.6"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.9"	0.0	-15.1"	-42.6"	-86.8"
TRAJ: 400 yds. zero	-1.5"	8.6"	13.5"	11.3"	0.0	-23.7"	-64.2"
TRAJ: 500 yds. zero	-1.5"	13.4"	22.9"	25.5"	19.0"	0.0	-35.7"
TRAJ: 600 yds. zero	-1.5"	19.3"	34.9"	43.4"	42.8"	29.8"	0.0
VELOCITY (fps)	2800	2467	2159	1873	1614	1388	1206
ENERGY (ft.-lbs.)	2611	2028	1552	1168	867	642	484
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-16.0"	-37.8"	-73.0"	-126.5"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.6"	-29.3"	-62.4"	-113.8"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.4"	0.0	-16.4"	-46.3"	-94.5"
TRAJ: 400 yds. zero	-1.5"	9.4"	14.6"	12.3"	0.0	-25.8"	-69.9"
TRAJ: 500 yds. zero	-1.5"	14.6"	25.0"	27.8"	20.6"	0.0	-38.9"
TRAJ: 600 yds. zero	-1.5"	21.1"	37.9"	47.3"	46.6"	32.4"	0.0
VELOCITY (fps)	2700	2375	2072	1794	1544	1330	1162
ENERGY (ft.-lbs.)	2428	1878	1430	1072	794	589	450
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-17.6"	-41.3"	-79.8"	-138.2"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.5"	-31.9"	-68.1"	-124.1"
TRAJ: 300 yds. zero	-1.5"	5.9"	7.0"	0.0	-17.9"	-50.5"	-103.1"
TRAJ: 400 yds. zero	-1.5"	10.3"	16.0"	13.4"	0.0	-28.2"	-76.2"
TRAJ: 500 yds. zero	-1.5"	16.0"	27.2"	30.3"	22.5"	0.0	-42.4"
TRAJ: 600 yds. zero	-1.5"	23.0"	41.4"	51.5"	50.8"	35.4"	0.0
VELOCITY (fps)	2600	2282	1986	1716	1475	1274	1123
ENERGY (ft.-lbs.)	2251	1734	1314	980	725	541	420
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-19.3"	-45.3"	-87.5"	-151.3"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.5"	-34.9"	-74.4"	-135.6"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.7"	0.0	-19.6"	-55.3"	-112.7"
TRAJ: 400 yds. zero	-1.5"	11.3"	17.4"	14.7"	0.0	-30.8"	-83.3"
TRAJ: 500 yds. zero	-1.5"	17.5"	29.8"	33.2"	24.7"	0.0	-46.3"
TRAJ: 600 yds. zero	-1.5"	25.2"	45.2"	56.3"	55.5"	38.6"	0.0
VELOCITY (fps)	2500	2189	1901	1639	1409	1222	1087
ENERGY (ft.-lbs.)	2081	1595	1203	894	661	497	394
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-21.3"	-49.9"	-96.2"	-165.9"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.6"	-38.3"	-81.6"	-148.5"
TRAJ: 300 yds. zero	-1.5"	7.1"	8.4"	0.0	-21.5"	-60.6"	-123.3"
TRAJ: 400 yds. zero	-1.5"	12.5"	19.1"	16.1"	0.0	-33.8"	-91.0"
TRAJ: 500 yds. zero	-1.5"	19.2"	32.7"	36.4"	27.0"	0.0	-50.5"
TRAJ: 600 yds. zero	-1.5"	27.6"	49.5"	61.6"	60.7"	42.1"	0.0

7MM CALIBER (.284" Dia.) 100 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .177 BALLISTIC COEFFICIENT: .279

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3125	2780	2460	2162	1886	1635
ENERGY (ft.-lbs.)	2720	2167	1715	1344	1038	790	593
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.7"	-21.0"	-40.9"	-70.5"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.6"	-16.9"	-35.7"	-64.3"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.7"	0.0	-9.5"	-26.4"	-53.2"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.4"	7.1"	0.0	-14.6"	-39.0"
TRAJ: 500 yds. zero	-1.5"	8.2"	14.3"	15.8"	11.7"	0.0	-21.5"
TRAJ: 600 yds. zero	-1.5"	11.8"	21.4"	26.6"	26.0"	17.9"	0.0
VELOCITY (fps)	3400	3033	2695	2382	2089	1819	1574
ENERGY (ft.-lbs.)	2566	2042	1613	1259	969	735	550
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.4"	-22.7"	-43.9"	-75.8"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-6.0"	-18.1"	-38.2"	-68.9"
TRAJ: 300 yds. zero	-1.5"	3.1"	4.0"	0.0	-10.1"	-28.3"	-57.0"
TRAJ: 400 yds. zero	-1.5"	5.7"	9.0"	7.6"	0.0	-15.6"	-41.8"
TRAJ: 500 yds. zero	-1.5"	8.8"	15.3"	17.0"	12.5"	0.0	-23.1"
TRAJ: 600 yds. zero	-1.5"	12.6"	23.0"	28.5"	27.9"	19.2"	0.0
VELOCITY (fps)	3300	2941	2610	2302	2016	1752	1515
ENERGY (ft.-lbs.)	2418	1921	1513	1177	902	681	509
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-10.2"	-24.4"	-47.3"	-81.6"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.4"	-19.4"	-41.0"	-74.0"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.3"	0.0	-10.9"	-30.3"	-61.2"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.7"	8.1"	0.0	-16.8"	-44.9"
TRAJ: 500 yds. zero	-1.5"	9.5"	16.4"	18.2"	13.4"	0.0	-24.8"
TRAJ: 600 yds. zero	-1.5"	13.6"	24.7"	30.6"	30.0"	20.7"	0.0
VELOCITY (fps)	3200	2849	2525	2223	1942	1685	1456
ENERGY (ft.-lbs.)	2273	1802	1415	1097	837	630	471
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-11.1"	-26.4"	-51.1"	-88.1"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.9"	-20.8"	-44.1"	-79.7"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.6"	0.0	-11.7"	-32.6"	-65.9"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.4"	8.7"	0.0	-18.0"	-48.4"
TRAJ: 500 yds. zero	-1.5"	10.2"	17.6"	19.6"	14.4"	0.0	-26.8"
TRAJ: 600 yds. zero	-1.5"	14.7"	26.6"	33.0"	32.3"	22.3"	0.0
VELOCITY (fps)	3100	2757	2439	2143	1868	1618	1399
ENERGY (ft.-lbs.)	2133	1688	1321	1019	775	581	435
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-12.1"	-28.6"	-55.3"	-95.3"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.4"	-22.5"	-47.5"	-86.0"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.9"	0.0	-12.6"	-35.2"	-71.2"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.2"	9.4"	0.0	-19.5"	-52.4"
TRAJ: 500 yds. zero	-1.5"	11.1"	19.0"	21.1"	15.6"	0.0	-29.0"
TRAJ: 600 yds. zero	-1.5"	15.9"	28.7"	35.6"	34.9"	24.2"	0.0
VELOCITY (fps)	3000	2665	2353	2063	1795	1553	1344
ENERGY (ft.-lbs.)	1998	1576	1229	945	715	535	401
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-13.2"	-31.1"	-60.0"	-103.4"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.0"	-24.3"	-51.4"	-93.1"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.3"	0.0	-13.6"	-38.0"	-77.1"
TRAJ: 400 yds. zero	-1.5"	7.8"	12.1"	10.2"	0.0	-21.1"	-56.7"
TRAJ: 500 yds. zero	-1.5"	12.0"	20.6"	22.8"	16.9"	0.0	-31.4"
TRAJ: 600 yds. zero	-1.5"	17.2"	31.0"	38.5"	37.8"	26.2"	0.0
VELOCITY (fps)	2900	2572	2267	1982	1721	1488	1291
ENERGY (ft.-lbs.)	1867	1469	1141	873	658	492	370
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.4"	-33.9"	-65.2"	-112.4"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.7"	-26.3"	-55.8"	-101.1"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.8"	0.0	-14.7"	-41.3"	-83.7"
TRAJ: 400 yds. zero	-1.5"	8.5"	13.2"	11.0"	0.0	-22.9"	-61.6"
TRAJ: 500 yds. zero	-1.5"	13.0"	22.3"	24.8"	18.3"	0.0	-34.2"
TRAJ: 600 yds. zero	-1.5"	18.7"	33.7"	41.8"	41.1"	28.5"	0.0
VELOCITY (fps)	2800	2479	2180	1902	1649	1426	1241
ENERGY (ft.-lbs.)	1741	1364	1055	803	604	451	342
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.7"	-37.0"	-71.1"	-122.6"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.5"	-28.6"	-60.6"	-110.0"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.3"	0.0	-16.0"	-44.9"	-91.1"
TRAJ: 400 yds. zero	-1.5"	9.2"	14.3"	12.0"	0.0	-24.9"	-67.1"
TRAJ: 500 yds. zero	-1.5"	14.2"	24.3"	26.9"	19.9"	0.0	-37.2"
TRAJ: 600 yds. zero	-1.5"	20.4"	36.7"	45.5"	44.7"	31.0"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2386	2093	1823	1578	1365	1194
ENERGY (ft.-lbs.)	1618	1264	973	738	553	414	316
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-17.3"	-40.4"	-77.7"	-133.9"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.3"	-31.2"	-66.1"	-120.0"
TRAJ: 300 yds. zero	-1.5"	5.8"	6.9"	0.0	-17.4"	-48.9"	-99.4"
TRAJ: 400 yds. zero	-1.5"	10.1"	15.6"	13.1"	0.0	-27.2"	-73.2"
TRAJ: 500 yds. zero	-1.5"	15.5"	26.5"	29.4"	21.7"	0.0	-40.6"
TRAJ: 600 yds. zero	-1.5"	22.3"	40.0"	49.7"	48.8"	33.9"	0.0
VELOCITY (fps)	2600	2293	2007	1744	1508	1307	1151
ENERGY (ft.-lbs.)	1501	1167	894	675	505	379	294
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-19.0"	-44.4"	-85.2"	-146.6"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.3"	-34.1"	-72.3"	-131.2"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.5"	0.0	-19.0"	-53.5"	-108.6"
TRAJ: 400 yds. zero	-1.5"	11.1"	17.0"	14.3"	0.0	-29.7"	-80.0"
TRAJ: 500 yds. zero	-1.5"	17.0"	28.9"	32.1"	23.8"	0.0	-44.4"
TRAJ: 600 yds. zero	-1.5"	24.4"	43.7"	54.3"	53.4"	37.0"	0.0
VELOCITY (fps)	2500	2200	1920	1665	1440	1252	1112
ENERGY (ft.-lbs.)	1388	1074	819	616	460	348	274
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-21.0"	-48.8"	-93.6"	-160.8"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.4"	-37.4"	-79.3"	-143.6"
TRAJ: 300 yds. zero	-1.5"	7.0"	8.2"	0.0	-20.9"	-58.7"	-118.9"
TRAJ: 400 yds. zero	-1.5"	12.2"	18.7"	15.7"	0.0	-32.6"	-87.6"
TRAJ: 500 yds. zero	-1.5"	18.7"	31.7"	35.2"	26.1"	0.0	-48.5"
TRAJ: 600 yds. zero	-1.5"	26.8"	47.9"	59.5"	58.4"	40.4"	0.0
VELOCITY (fps)	2400	2106	1835	1588	1374	1201	1077
ENERGY (ft.-lbs.)	1279	985	747	560	419	320	257
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-23.2"	-53.9"	-103.2"	-176.7"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.6"	-41.1"	-87.2"	-157.5"
TRAJ: 300 yds. zero	-1.5"	7.7"	9.1"	0.0	-23.0"	-64.5"	-130.3"
TRAJ: 400 yds. zero	-1.5"	13.5"	20.5"	17.2"	0.0	-35.8"	-95.9"
TRAJ: 500 yds. zero	-1.5"	20.6"	34.9"	38.7"	28.7"	0.0	-52.9"
TRAJ: 600 yds. zero	-1.5"	29.4"	52.5"	65.2"	63.9"	44.1"	0.0
VELOCITY (fps)	2300	2013	1750	1513	1311	1154	1045
ENERGY (ft.-lbs.)	1174	900	680	508	382	296	243
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-25.7"	-59.6"	-113.9"	-194.2"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-15.0"	-45.3"	-96.0"	-172.8"
TRAJ: 300 yds. zero	-1.5"	8.6"	10.0"	0.0	-25.3"	-71.0"	-142.8"
TRAJ: 400 yds. zero	-1.5"	14.9"	22.7"	19.0"	0.0	-39.4"	-104.8"
TRAJ: 500 yds. zero	-1.5"	22.8"	38.4"	42.6"	31.5"	0.0	-57.5"
TRAJ: 600 yds. zero	-1.5"	32.4"	57.6"	71.4"	69.9"	47.9"	0.0
VELOCITY (fps)	2200	1921	1666	1440	1252	1112	1017
ENERGY (ft.-lbs.)	1075	819	616	460	348	274	230
TRAJ: 100 yds. zero	-1.5"	0.0	-8.0"	-28.6"	-66.1"	-125.9"	-213.5"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-16.6"	-50.1"	-106.0"	-189.5"
TRAJ: 300 yds. zero	-1.5"	9.5"	11.1"	0.0	-28.0"	-78.3"	-156.3"
TRAJ: 400 yds. zero	-1.5"	16.5"	25.1"	21.0"	0.0	-43.3"	-114.3"
TRAJ: 500 yds. zero	-1.5"	25.2"	42.4"	47.0"	34.6"	0.0	-62.4"
TRAJ: 600 yds. zero	-1.5"	35.6"	63.2"	78.1"	76.2"	52.0"	0.0
VELOCITY (fps)	2100	1829	1583	1370	1197	1074	991
ENERGY (ft.-lbs.)	979	743	556	416	318	256	218
TRAJ: 100 yds. zero	-1.5"	0.0	-9.0"	-31.9"	-73.5"	-139.4"	-234.7"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-18.5"	-55.6"	-117.0"	-207.8"
TRAJ: 300 yds. zero	-1.5"	10.6"	12.3"	0.0	-31.0"	-86.3"	-170.8"
TRAJ: 400 yds. zero	-1.5"	18.4"	27.8"	23.2"	0.0	-47.5"	-124.4"
TRAJ: 500 yds. zero	-1.5"	27.9"	46.8"	51.8"	38.0"	0.0	-67.3"
TRAJ: 600 yds. zero	-1.5"	39.1"	69.3"	85.4"	82.9"	56.1"	0.0
VELOCITY (fps)	2000	1737	1502	1302	1147	1041	967
ENERGY (ft.-lbs.)	888	670	501	377	292	241	207
TRAJ: 100 yds. zero	-1.5"	0.0	-10.1"	-35.7"	-81.9"	-154.4"	-257.8"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-20.6"	-61.7"	-129.2"	-227.5"
TRAJ: 300 yds. zero	-1.5"	11.9"	13.7"	0.0	-34.3"	-94.9"	-186.4"
TRAJ: 400 yds. zero	-1.5"	20.5"	30.9"	25.7"	0.0	-52.0"	-134.9"
TRAJ: 500 yds. zero	-1.5"	30.9"	51.7"	56.9"	41.6"	0.0	-72.5"
TRAJ: 600 yds. zero	-1.5"	43.0"	75.8"	93.2"	89.9"	60.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1900	1647	1424	1239	1103	1011	944
ENERGY (ft.-lbs.)	801	602	450	341	270	227	198
TRAJ: 100 yds. zero	-1.5"	0.0	-11.4"	-40.1"	-91.4"	-171.0"	-283.0"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-23.0"	-68.6"	-142.5"	-248.7"
TRAJ: 300 yds. zero	-1.5"	13.4"	15.3"	0.0	-38.0"	-104.2"	-202.8"
TRAJ: 400 yds. zero	-1.5"	22.9"	34.3"	28.5"	0.0	-56.7"	-145.8"
TRAJ: 500 yds. zero	-1.5"	34.2"	57.0"	62.5"	45.3"	0.0	-77.8"
TRAJ: 600 yds. zero	-1.5"	47.2"	82.9"	101.4"	97.2"	64.8"	0.0
VELOCITY (fps)	1800	1558	1348	1181	1063	983	922
ENERGY (ft.-lbs.)	719	539	403	310	251	215	189
TRAJ: 100 yds. zero	-1.5"	0.0	-12.9"	-45.1"	-102.1"	-189.2"	-310.3"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-25.7"	-76.3"	-156.9"	-271.5"
TRAJ: 300 yds. zero	-1.5"	15.0"	17.1"	0.0	-42.0"	-114.1"	-220.2"
TRAJ: 400 yds. zero	-1.5"	25.5"	38.1"	31.5"	0.0	-61.5"	-157.1"
TRAJ: 500 yds. zero	-1.5"	37.8"	62.8"	68.5"	49.2"	0.0	-83.2"
TRAJ: 600 yds. zero	-1.5"	51.7"	90.5"	110.1"	104.7"	69.4"	0.0
VELOCITY (fps)	1700	1470	1276	1128	1028	957	901
ENERGY (ft.-lbs.)	642	480	361	283	235	203	180
TRAJ: 100 yds. zero	-1.5"	0.0	-14.7"	-50.8"	-114.0"	-209.1"	-339.9"
TRAJ: 200 yds. zero	-1.5"	7.3"	0.0	-28.8"	-84.7"	-172.4"	-295.9"
TRAJ: 300 yds. zero	-1.5"	16.9"	19.2"	0.0	-46.3"	-124.4"	-238.3"
TRAJ: 400 yds. zero	-1.5"	28.5"	42.3"	34.7"	0.0	-66.6"	-168.9"
TRAJ: 500 yds. zero	-1.5"	41.8"	69.0"	74.7"	53.3"	0.0	-89.0"
TRAJ: 600 yds. zero	-1.5"	56.7"	98.6"	119.2"	112.6"	74.2"	0.0
VELOCITY (fps)	1600	1384	1208	1082	996	932	880
ENERGY (ft.-lbs.)	568	425	324	260	220	193	172
TRAJ: 100 yds. zero	-1.5"	0.0	-16.7"	-57.3"	-127.2"	-230.8"	-372.2"
TRAJ: 200 yds. zero	-1.5"	8.4"	0.0	-32.2"	-93.7"	-188.9"	-321.9"
TRAJ: 300 yds. zero	-1.5"	19.1"	21.5"	0.0	-50.8"	-135.3"	-257.5"
TRAJ: 400 yds. zero	-1.5"	31.8"	46.8"	38.1"	0.0	-71.8"	-181.4"
TRAJ: 500 yds. zero	-1.5"	46.2"	75.6"	81.2"	57.5"	0.0	-95.2"
TRAJ: 600 yds. zero	-1.5"	62.0"	107.3"	128.8"	120.9"	79.3"	0.0

7MM CALIBER (.284" Dia.) 120 GRAIN SPIRE POINT OR SINGLE SHOT PISTOL
SECTIONAL DENSITY: .213 BALLISTIC COEFFICIENT: .350

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3198	2916	2652	2402	2167	1944
ENERGY (ft.-lbs.)	3264	2725	2266	1874	1538	1251	1007
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-7.9"	-18.9"	-35.8"	-60.3"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.0"	-15.0"	-31.1"	-54.5"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.4"	0.0	-8.3"	-22.7"	-44.4"
TRAJ: 400 yds. zero	-1.5"	4.7"	7.5"	6.2"	0.0	-12.3"	-32.0"
TRAJ: 500 yds. zero	-1.5"	7.2"	12.4"	13.6"	9.8"	0.0	-17.2"
TRAJ: 600 yds. zero	-1.5"	10.0"	18.2"	22.2"	21.3"	14.4"	0.0
VELOCITY (fps)	3400	3105	2829	2570	2325	2093	1876
ENERGY (ft.-lbs.)	3080	2568	2132	1759	1440	1167	937
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.6"	-20.3"	-38.5"	-64.7"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.4"	-16.1"	-33.2"	-58.3"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.6"	0.0	-8.9"	-24.2"	-47.5"
TRAJ: 400 yds. zero	-1.5"	5.1"	8.0"	6.7"	0.0	-13.1"	-34.2"
TRAJ: 500 yds. zero	-1.5"	7.7"	13.3"	14.5"	10.5"	0.0	-18.4"
TRAJ: 600 yds. zero	-1.5"	10.8"	19.4"	23.7"	22.8"	15.4"	0.0
VELOCITY (fps)	3300	3012	2742	2487	2247	2020	1807
ENERGY (ft.-lbs.)	2901	2416	2002	1648	1345	1087	870
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.3"	-21.9"	-41.4"	-69.5"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.8"	-17.2"	-35.6"	-62.5"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.9"	0.0	-9.5"	-25.9"	-50.9"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.6"	7.1"	0.0	-14.0"	-36.6"
TRAJ: 500 yds. zero	-1.5"	8.3"	14.2"	15.5"	11.2"	0.0	-19.8"
TRAJ: 600 yds. zero	-1.5"	11.6"	20.8"	25.4"	24.4"	16.5"	0.0
VELOCITY (fps)	3200	2918	2654	2404	2168	1946	1738
ENERGY (ft.-lbs.)	2728	2269	1876	1540	1252	1009	805
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.1"	-23.7"	-44.7"	-74.9"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.2"	-18.5"	-38.2"	-67.1"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.2"	0.0	-10.2"	-27.8"	-54.6"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.3"	7.6"	0.0	-15.1"	-39.3"
TRAJ: 500 yds. zero	-1.5"	8.9"	15.3"	16.7"	12.1"	0.0	-21.3"
TRAJ: 600 yds. zero	-1.5"	12.5"	22.4"	27.3"	26.2"	17.7"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2825	2565	2321	2089	1872	1670
ENERGY (ft.-lbs.)	2560	2125	1753	1435	1163	934	743
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.0"	-25.7"	-48.3"	-80.9"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.7"	-19.9"	-41.1"	-72.3"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.5"	0.0	-11.0"	-29.9"	-58.8"
TRAJ: 400 yds. zero	-1.5"	6.4"	10.0"	8.2"	0.0	-16.2"	-42.4"
TRAJ: 500 yds. zero	-1.5"	9.7"	16.5"	17.9"	13.0"	0.0	-22.9"
TRAJ: 600 yds. zero	-1.5"	13.5"	24.1"	29.4"	28.3"	19.1"	0.0
VELOCITY (fps)	3000	2731	2477	2237	2010	1798	1603
ENERGY (ft.-lbs.)	2398	1986	1634	1333	1077	862	684
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.0"	-27.9"	-52.3"	-87.6"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.3"	-21.5"	-44.4"	-78.1"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.8"	-32.3"	-63.5"
TRAJ: 400 yds. zero	-1.5"	7.0"	10.8"	8.9"	0.0	-17.5"	-45.8"
TRAJ: 500 yds. zero	-1.5"	10.5"	17.8"	19.4"	14.0"	0.0	-24.8"
TRAJ: 600 yds. zero	-1.5"	14.6"	26.0"	31.8"	30.5"	20.7"	0.0
VELOCITY (fps)	2900	2637	2388	2153	1931	1725	1536
ENERGY (ft.-lbs.)	2240	1852	1519	1235	994	793	629
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.1"	-30.3"	-56.8"	-95.1"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.9"	-23.3"	-48.0"	-84.6"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.2"	0.0	-12.8"	-34.9"	-68.8"
TRAJ: 400 yds. zero	-1.5"	7.6"	11.6"	9.6"	0.0	-18.9"	-49.6"
TRAJ: 500 yds. zero	-1.5"	11.4"	19.2"	21.0"	15.2"	0.0	-26.9"
TRAJ: 600 yds. zero	-1.5"	15.9"	28.2"	34.4"	33.1"	22.4"	0.0
VELOCITY (fps)	2800	2542	2299	2069	1853	1653	1471
ENERGY (ft.-lbs.)	2089	1722	1408	1140	914	728	577
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.4"	-33.0"	-61.9"	-103.5"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.5"	-25.3"	-52.1"	-91.8"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.7"	0.0	-13.9"	-37.9"	-74.7"
TRAJ: 400 yds. zero	-1.5"	8.3"	12.6"	10.4"	0.0	-20.6"	-54.0"
TRAJ: 500 yds. zero	-1.5"	12.4"	20.9"	22.7"	16.5"	0.0	-29.3"
TRAJ: 600 yds. zero	-1.5"	17.3"	30.6"	37.4"	36.0"	24.4"	0.0
VELOCITY (fps)	2700	2448	2209	1985	1774	1581	1408
ENERGY (ft.-lbs.)	1942	1596	1301	1049	839	666	528
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-15.8"	-36.1"	-67.6"	-113.0"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.3"	-27.5"	-56.8"	-100.0"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.2"	0.0	-15.1"	-41.2"	-81.4"
TRAJ: 400 yds. zero	-1.5"	9.0"	13.7"	11.3"	0.0	-22.4"	-58.8"
TRAJ: 500 yds. zero	-1.5"	13.5"	22.7"	24.7"	17.9"	0.0	-31.9"
TRAJ: 600 yds. zero	-1.5"	18.8"	33.3"	40.7"	39.2"	26.6"	0.0
VELOCITY (fps)	2600	2353	2120	1901	1697	1511	1347
ENERGY (ft.-lbs.)	1801	1475	1198	963	767	608	483
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-17.4"	-39.6"	-74.0"	-123.7"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.2"	-30.0"	-62.0"	-109.3"
TRAJ: 300 yds. zero	-1.5"	5.8"	6.8"	0.0	-16.4"	-45.0"	-89.0"
TRAJ: 400 yds. zero	-1.5"	9.9"	15.0"	12.3"	0.0	-24.5"	-64.3"
TRAJ: 500 yds. zero	-1.5"	14.8"	24.8"	27.0"	19.6"	0.0	-34.9"
TRAJ: 600 yds. zero	-1.5"	20.6"	36.4"	44.5"	42.9"	29.1"	0.0
VELOCITY (fps)	2500	2259	2031	1818	1620	1443	1289
ENERGY (ft.-lbs.)	1665	1359	1099	880	699	554	443
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.1"	-43.5"	-81.2"	-135.7"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.1"	-32.8"	-67.9"	-119.7"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.4"	0.0	-18.0"	-49.3"	-97.5"
TRAJ: 400 yds. zero	-1.5"	10.9"	16.4"	13.5"	0.0	-26.8"	-70.5"
TRAJ: 500 yds. zero	-1.5"	16.2"	27.1"	29.6"	21.5"	0.0	-38.3"
TRAJ: 600 yds. zero	-1.5"	22.6"	39.9"	48.7"	47.0"	31.9"	0.0
VELOCITY (fps)	2400	2164	1942	1735	1545	1377	1234
ENERGY (ft.-lbs.)	1535	1248	1005	802	636	505	406
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-21.2"	-48.0"	-89.4"	-149.4"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-12.2"	-36.1"	-74.6"	-131.5"
TRAJ: 300 yds. zero	-1.5"	7.1"	8.2"	0.0	-19.8"	-54.2"	-107.1"
TRAJ: 400 yds. zero	-1.5"	12.0"	18.0"	14.8"	0.0	-29.5"	-77.4"
TRAJ: 500 yds. zero	-1.5"	17.9"	29.8"	32.5"	23.6"	0.0	-42.1"
TRAJ: 600 yds. zero	-1.5"	24.9"	43.8"	53.5"	51.6"	35.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2300	2070	1854	1654	1472	1314	1184
ENERGY (ft.-lbs.)	1409	1141	916	728	577	460	373
TRAJ: 100 yds. zero	-1.5"	0.0	-6.6"	-23.5"	-53.0"	-98.8"	-164.8"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-13.5"	-39.7"	-82.2"	-144.8"
TRAJ: 300 yds. zero	-1.5"	7.8"	9.0"	0.0	-21.8"	-59.7"	-117.9"
TRAJ: 400 yds. zero	-1.5"	13.3"	19.9"	16.3"	0.0	-32.5"	-85.2"
TRAJ: 500 yds. zero	-1.5"	19.8"	32.9"	35.8"	26.0"	0.0	-46.3"
TRAJ: 600 yds. zero	-1.5"	27.5"	48.3"	58.9"	56.8"	38.6"	0.0
VELOCITY (fps)	2200	1976	1766	1573	1401	1254	1138
ENERGY (ft.-lbs.)	1289	1040	831	660	523	419	345
TRAJ: 100 yds. zero	-1.5"	0.0	-7.4"	-26.1"	-58.8"	-109.4"	-182.2"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-14.9"	-44.0"	-90.8"	-159.9"
TRAJ: 300 yds. zero	-1.5"	8.7"	9.9"	0.0	-24.1"	-65.9"	-130.0"
TRAJ: 400 yds. zero	-1.5"	14.7"	22.0"	18.1"	0.0	-35.8"	-93.9"
TRAJ: 500 yds. zero	-1.5"	21.9"	36.3"	39.6"	28.7"	0.0	-50.9"
TRAJ: 600 yds. zero	-1.5"	30.4"	53.3"	65.0"	62.6"	42.4"	0.0
VELOCITY (fps)	2100	1882	1679	1495	1334	1199	1097
ENERGY (ft.-lbs.)	1175	944	751	596	474	383	321
TRAJ: 100 yds. zero	-1.5"	0.0	-8.4"	-29.1"	-65.5"	-121.5"	-201.7"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-16.6"	-48.7"	-100.6"	-176.7"
TRAJ: 300 yds. zero	-1.5"	9.7"	11.0"	0.0	-26.7"	-73.0"	-143.6"
TRAJ: 400 yds. zero	-1.5"	16.4"	24.4"	20.0"	0.0	-39.7"	-103.6"
TRAJ: 500 yds. zero	-1.5"	24.3"	40.2"	43.8"	31.7"	0.0	-56.0"
TRAJ: 600 yds. zero	-1.5"	33.6"	58.9"	71.8"	69.0"	46.6"	0.0
VELOCITY (fps)	2000	1789	1594	1419	1269	1149	1061
ENERGY (ft.-lbs.)	1066	852	677	537	429	352	300
TRAJ: 100 yds. zero	-1.5"	0.0	-9.4"	-32.6"	-73.0"	-135.2"	-223.6"
TRAJ: 200 yds. zero	-1.5"	4.7"	0.0	-18.4"	-54.2"	-111.7"	-195.4"
TRAJ: 300 yds. zero	-1.5"	10.9"	12.3"	0.0	-29.6"	-80.9"	-158.5"
TRAJ: 400 yds. zero	-1.5"	18.3"	27.1"	22.2"	0.0	-43.9"	-114.0"
TRAJ: 500 yds. zero	-1.5"	27.0"	44.7"	48.6"	35.1"	0.0	-61.3"
TRAJ: 600 yds. zero	-1.5"	37.3"	65.1"	79.2"	76.0"	51.1"	0.0
VELOCITY (fps)	1900	1696	1510	1346	1210	1104	1028
ENERGY (ft.-lbs.)	962	766	608	483	390	325	282
TRAJ: 100 yds. zero	-1.5"	0.0	-10.6"	-36.6"	-81.8"	-150.8"	-247.9"
TRAJ: 200 yds. zero	-1.5"	5.3"	0.0	-20.6"	-60.5"	-124.2"	-216.0"
TRAJ: 300 yds. zero	-1.5"	12.2"	13.7"	0.0	-33.0"	-89.8"	-174.8"
TRAJ: 400 yds. zero	-1.5"	20.4"	30.3"	24.8"	0.0	-48.6"	-125.3"
TRAJ: 500 yds. zero	-1.5"	30.2"	49.7"	53.9"	38.9"	0.0	-67.0"
TRAJ: 600 yds. zero	-1.5"	41.3"	72.0"	87.4"	83.5"	55.8"	0.0
VELOCITY (fps)	1800	1604	1429	1277	1155	1065	998
ENERGY (ft.-lbs.)	863	686	544	434	355	302	266
TRAJ: 100 yds. zero	-1.5"	0.0	-12.1"	-41.2"	-91.8"	-168.3"	-274.8"
TRAJ: 200 yds. zero	-1.5"	6.0"	0.0	-23.1"	-67.6"	-138.1"	-238.6"
TRAJ: 300 yds. zero	-1.5"	13.7"	15.4"	0.0	-36.8"	-99.6"	-192.4"
TRAJ: 400 yds. zero	-1.5"	22.9"	33.8"	27.6"	0.0	-53.6"	-137.2"
TRAJ: 500 yds. zero	-1.5"	33.7"	55.3"	59.8"	42.9"	0.0	-72.9"
TRAJ: 600 yds. zero	-1.5"	45.8"	79.5"	96.2"	91.4"	60.7"	0.0
VELOCITY (fps)	1700	1514	1349	1212	1106	1029	971
ENERGY (ft.-lbs.)	770	610	485	391	326	282	251
TRAJ: 100 yds. zero	-1.5"	0.0	-13.7"	-46.6"	-103.2"	-187.9"	-304.3"
TRAJ: 200 yds. zero	-1.5"	6.9"	0.0	-26.0"	-75.7"	-153.5"	-263.2"
TRAJ: 300 yds. zero	-1.5"	15.5"	17.3"	0.0	-41.0"	-110.2"	-211.1"
TRAJ: 400 yds. zero	-1.5"	25.8"	37.9"	30.8"	0.0	-58.9"	-149.6"
TRAJ: 500 yds. zero	-1.5"	37.6"	61.4"	66.1"	47.1"	0.0	-78.9"
TRAJ: 600 yds. zero	-1.5"	50.7"	87.7"	105.6"	99.7"	65.8"	0.0
VELOCITY (fps)	1600	1425	1274	1153	1063	997	945
ENERGY (ft.-lbs.)	682	541	432	354	301	265	238
TRAJ: 100 yds. zero	-1.5"	0.0	-15.7"	-52.8"	-116.1"	-209.6"	-336.8"
TRAJ: 200 yds. zero	-1.5"	7.8"	0.0	-29.3"	-84.7"	-170.4"	-289.7"
TRAJ: 300 yds. zero	-1.5"	17.6"	19.5"	0.0	-45.6"	-121.5"	-231.1"
TRAJ: 400 yds. zero	-1.5"	29.0"	42.4"	34.2"	0.0	-64.5"	-162.7"
TRAJ: 500 yds. zero	-1.5"	41.9"	68.1"	72.9"	51.6"	0.0	-85.3"
TRAJ: 600 yds. zero	-1.5"	56.1"	96.6"	115.6"	108.4"	71.1"	0.0

7MM CALIBER (.284" Dia.) 120 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .213 BALLISTIC COEFFICIENT: .334

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3184	2890	2615	2356	2112	1883
ENERGY (ft.-lbs.)	3264	2701	2226	1822	1479	1188	945
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.0"	-19.2"	-36.7"	-62.0"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.1"	-15.4"	-31.9"	-56.2"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.4"	0.0	-8.5"	-23.3"	-45.9"
TRAJ: 400 yds. zero	-1.5"	4.8"	7.7"	6.4"	0.0	-12.7"	-33.1"
TRAJ: 500 yds. zero	-1.5"	7.3"	12.8"	14.0"	10.1"	0.0	-17.9"
TRAJ: 600 yds. zero	-1.5"	10.3"	18.7"	23.0"	22.1"	15.0"	0.0
VELOCITY (fps)	3400	3091	2804	2534	2279	2040	1816
ENERGY (ft.-lbs.)	3080	2546	2094	1710	1384	1108	878
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.7"	-20.7"	-39.5"	-66.6"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.5"	-16.4"	-34.1"	-60.1"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.7"	0.0	-9.1"	-24.9"	-49.1"
TRAJ: 400 yds. zero	-1.5"	5.2"	8.2"	6.8"	0.0	-13.5"	-35.5"
TRAJ: 500 yds. zero	-1.5"	7.9"	13.6"	14.9"	10.8"	0.0	-19.2"
TRAJ: 600 yds. zero	-1.5"	11.1"	20.0"	24.6"	23.6"	16.0"	0.0
VELOCITY (fps)	3300	2998	2717	2452	2202	1967	1749
ENERGY (ft.-lbs.)	2901	2395	1966	1601	1292	1031	815
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.5"	-22.4"	-42.5"	-71.6"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.9"	-17.6"	-36.5"	-64.4"
TRAJ: 300 yds. zero	-1.5"	3.2"	3.9"	0.0	-9.7"	-26.7"	-52.6"
TRAJ: 400 yds. zero	-1.5"	5.6"	8.8"	7.3"	0.0	-14.5"	-38.0"
TRAJ: 500 yds. zero	-1.5"	8.5"	14.6"	16.0"	11.6"	0.0	-20.6"
TRAJ: 600 yds. zero	-1.5"	11.9"	21.5"	26.3"	25.3"	17.2"	0.0
VELOCITY (fps)	3200	2905	2629	2369	2124	1895	1682
ENERGY (ft.-lbs.)	2728	2249	1842	1496	1202	956	754
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.3"	-24.2"	-45.8"	-77.2"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.4"	-18.9"	-39.2"	-69.3"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.2"	0.0	-10.5"	-28.6"	-56.5"
TRAJ: 400 yds. zero	-1.5"	6.0"	9.5"	7.8"	0.0	-15.6"	-40.9"
TRAJ: 500 yds. zero	-1.5"	9.2"	15.7"	17.2"	12.5"	0.0	-22.2"
TRAJ: 600 yds. zero	-1.5"	12.9"	23.1"	28.3"	27.2"	18.5"	0.0
VELOCITY (fps)	3100	2812	2541	2287	2047	1822	1616
ENERGY (ft.-lbs.)	2560	2106	1721	1393	1116	885	695
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.2"	-26.2"	-49.5"	-83.4"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.9"	-20.4"	-42.2"	-74.6"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.6"	0.0	-11.2"	-30.8"	-60.9"
TRAJ: 400 yds. zero	-1.5"	6.5"	10.2"	8.4"	0.0	-16.8"	-44.1"
TRAJ: 500 yds. zero	-1.5"	9.9"	16.9"	18.5"	13.4"	0.0	-23.9"
TRAJ: 600 yds. zero	-1.5"	13.9"	24.9"	30.5"	29.4"	20.0"	0.0
VELOCITY (fps)	3000	2718	2453	2203	1969	1750	1550
ENERGY (ft.-lbs.)	2398	1968	1603	1293	1032	816	640
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.2"	-28.4"	-53.7"	-90.3"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.4"	-22.0"	-45.6"	-80.6"
TRAJ: 300 yds. zero	-1.5"	4.1"	4.9"	0.0	-12.1"	-33.3"	-65.8"
TRAJ: 400 yds. zero	-1.5"	7.1"	11.0"	9.1"	0.0	-18.1"	-47.6"
TRAJ: 500 yds. zero	-1.5"	10.7"	18.2"	20.0"	14.5"	0.0	-25.9"
TRAJ: 600 yds. zero	-1.5"	15.0"	26.9"	32.9"	31.8"	21.6"	0.0
VELOCITY (fps)	2900	2624	2365	2120	1891	1678	1486
ENERGY (ft.-lbs.)	2240	1835	1490	1197	952	750	588
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.4"	-30.9"	-58.3"	-98.1"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.0"	-23.8"	-49.4"	-87.4"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.3"	0.0	-13.1"	-36.0"	-71.3"
TRAJ: 400 yds. zero	-1.5"	7.7"	11.9"	9.8"	0.0	-19.6"	-51.7"
TRAJ: 500 yds. zero	-1.5"	11.7"	19.7"	21.6"	15.7"	0.0	-28.1"
TRAJ: 600 yds. zero	-1.5"	16.3"	29.1"	35.7"	34.4"	23.4"	0.0
VELOCITY (fps)	2800	2530	2276	2037	1813	1607	1423
ENERGY (ft.-lbs.)	2089	1706	1380	1105	876	688	540
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.6"	-33.7"	-63.5"	-106.8"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.7"	-25.8"	-53.6"	-94.9"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.8"	0.0	-14.2"	-39.1"	-77.5"
TRAJ: 400 yds. zero	-1.5"	8.4"	12.9"	10.7"	0.0	-21.3"	-56.2"
TRAJ: 500 yds. zero	-1.5"	12.7"	21.4"	23.5"	17.0"	0.0	-30.6"
TRAJ: 600 yds. zero	-1.5"	17.8"	31.6"	38.8"	37.5"	25.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2436	2187	1953	1736	1538	1363
ENERGY (ft.-lbs.)	1942	1581	1275	1017	803	630	495
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-16.1"	-36.9"	-69.3"	-116.6"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.5"	-28.1"	-58.4"	-103.5"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.3"	0.0	-15.5"	-42.6"	-84.5"
TRAJ: 400 yds. zero	-1.5"	9.2"	14.1"	11.6"	0.0	-23.2"	-61.3"
TRAJ: 500 yds. zero	-1.5"	13.9"	23.3"	25.5"	18.6"	0.0	-33.4"
TRAJ: 600 yds. zero	-1.5"	19.4"	34.5"	42.2"	40.8"	27.8"	0.0
VELOCITY (fps)	2600	2342	2099	1871	1660	1469	1305
ENERGY (ft.-lbs.)	1801	1461	1173	932	734	575	453
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-17.7"	-40.4"	-75.9"	-127.6"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.4"	-30.7"	-63.8"	-113.1"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.9"	0.0	-16.9"	-46.5"	-92.3"
TRAJ: 400 yds. zero	-1.5"	10.1"	15.4"	12.7"	0.0	-25.4"	-67.0"
TRAJ: 500 yds. zero	-1.5"	15.2"	25.5"	27.9"	20.3"	0.0	-36.5"
TRAJ: 600 yds. zero	-1.5"	21.3"	37.7"	46.2"	44.7"	30.5"	0.0
VELOCITY (fps)	2500	2248	2010	1788	1585	1403	1250
ENERGY (ft.-lbs.)	1665	1346	1076	852	669	525	416
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-19.5"	-44.5"	-83.4"	-140.1"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.3"	-33.6"	-69.9"	-123.9"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.6"	0.0	-18.5"	-50.9"	-101.2"
TRAJ: 400 yds. zero	-1.5"	11.1"	16.8"	13.9"	0.0	-27.8"	-73.4"
TRAJ: 500 yds. zero	-1.5"	16.7"	27.9"	30.6"	22.3"	0.0	-40.0"
TRAJ: 600 yds. zero	-1.5"	23.4"	41.3"	50.6"	49.0"	33.4"	0.0
VELOCITY (fps)	2400	2153	1922	1707	1511	1340	1199
ENERGY (ft.-lbs.)	1535	1235	984	776	608	478	383
TRAJ: 100 yds. zero	-1.5"	0.0	-6.0"	-21.5"	-49.0"	-91.8"	-154.2"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-12.5"	-37.0"	-76.8"	-136.1"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.3"	0.0	-20.3"	-56.0"	-111.1"
TRAJ: 400 yds. zero	-1.5"	12.3"	18.5"	15.2"	0.0	-30.6"	-80.7"
TRAJ: 500 yds. zero	-1.5"	18.4"	30.7"	33.6"	24.5"	0.0	-44.0"
TRAJ: 600 yds. zero	-1.5"	25.7"	45.4"	55.6"	53.8"	36.7"	0.0
VELOCITY (fps)	2300	2059	1834	1626	1440	1280	1152
ENERGY (ft.-lbs.)	1409	1130	896	705	552	436	354
TRAJ: 100 yds. zero	-1.5"	0.0	-6.7"	-23.9"	-54.2"	-101.4"	-170.0"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-13.8"	-40.7"	-84.6"	-149.8"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.2"	0.0	-22.4"	-61.7"	-122.3"
TRAJ: 400 yds. zero	-1.5"	13.6"	20.4"	16.8"	0.0	-33.7"	-88.7"
TRAJ: 500 yds. zero	-1.5"	20.3"	33.8"	37.0"	26.9"	0.0	-48.3"
TRAJ: 600 yds. zero	-1.5"	28.3"	49.9"	61.2"	59.2"	40.3"	0.0
VELOCITY (fps)	2200	1965	1747	1547	1371	1224	1110
ENERGY (ft.-lbs.)	1289	1029	813	638	501	399	328
TRAJ: 100 yds. zero	-1.5"	0.0	-7.5"	-26.5"	-60.1"	-112.3"	-187.9"
TRAJ: 200 yds. zero	-1.5"	3.8"	0.0	-15.2"	-45.0"	-93.5"	-165.2"
TRAJ: 300 yds. zero	-1.5"	8.8"	10.1"	0.0	-24.7"	-68.1"	-134.8"
TRAJ: 400 yds. zero	-1.5"	15.0"	22.5"	18.6"	0.0	-37.2"	-97.7"
TRAJ: 500 yds. zero	-1.5"	22.5"	37.4"	40.9"	29.7"	0.0	-53.1"
TRAJ: 600 yds. zero	-1.5"	31.3"	55.1"	67.4"	65.1"	44.2"	0.0
VELOCITY (fps)	2100	1872	1661	1471	1306	1172	1073
ENERGY (ft.-lbs.)	1175	933	735	576	454	366	307
TRAJ: 100 yds. zero	-1.5"	0.0	-8.5"	-29.6"	-66.9"	-124.7"	-207.8"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-16.9"	-50.0"	-103.5"	-182.4"
TRAJ: 300 yds. zero	-1.5"	9.9"	11.3"	0.0	-27.4"	-75.4"	-148.6"
TRAJ: 400 yds. zero	-1.5"	16.7"	25.0"	20.6"	0.0	-41.1"	-107.5"
TRAJ: 500 yds. zero	-1.5"	24.9"	41.4"	45.2"	32.9"	0.0	-58.2"
TRAJ: 600 yds. zero	-1.5"	34.6"	60.8"	74.3"	71.7"	48.5"	0.0
VELOCITY (fps)	2000	1779	1576	1396	1244	1125	1040
ENERGY (ft.-lbs.)	1066	843	662	519	412	337	288
TRAJ: 100 yds. zero	-1.5"	0.0	-9.5"	-33.1"	-74.7"	-138.7"	-230.0"
TRAJ: 200 yds. zero	-1.5"	4.8"	0.0	-18.8"	-55.6"	-114.9"	-201.4"
TRAJ: 300 yds. zero	-1.5"	11.0"	12.6"	0.0	-30.5"	-83.5"	-163.8"
TRAJ: 400 yds. zero	-1.5"	18.7"	27.8"	22.9"	0.0	-45.4"	-118.0"
TRAJ: 500 yds. zero	-1.5"	27.7"	46.0"	50.1"	36.3"	0.0	-63.5"
TRAJ: 600 yds. zero	-1.5"	38.3"	67.1"	81.9"	78.7"	53.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1900	1687	1494	1325	1187	1084	1010
ENERGY (ft.-lbs.)	962	758	594	468	375	313	272
TRAJ: 100 yds. zero	-1.5"	0.0	-10.8"	-37.2"	-83.5"	-154.5"	-254.6"
TRAJ: 200 yds. zero	-1.5"	5.4"	0.0	-21.0"	-62.0"	-127.6"	-222.3"
TRAJ: 300 yds. zero	-1.5"	12.4"	14.0"	0.0	-33.9"	-92.5"	-180.2"
TRAJ: 400 yds. zero	-1.5"	20.9"	31.0"	25.4"	0.0	-50.1"	-129.3"
TRAJ: 500 yds. zero	-1.5"	30.9"	51.0"	55.5"	40.1"	0.0	-69.1"
TRAJ: 600 yds. zero	-1.5"	42.4"	74.1"	90.1"	86.2"	57.6"	0.0
VELOCITY (fps)	1800	1595	1413	1257	1135	1047	982
ENERGY (ft.-lbs.)	863	678	532	421	343	292	257
TRAJ: 100 yds. zero	-1.5"	0.0	-12.2"	-41.9"	-93.7"	-172.2"	-281.6"
TRAJ: 200 yds. zero	-1.5"	6.1"	0.0	-23.6"	-69.2"	-141.7"	-245.0"
TRAJ: 300 yds. zero	-1.5"	14.0"	15.7"	0.0	-37.8"	-102.4"	-197.8"
TRAJ: 400 yds. zero	-1.5"	23.4"	34.6"	28.3"	0.0	-55.1"	-141.1"
TRAJ: 500 yds. zero	-1.5"	34.4"	56.7"	61.4"	44.1"	0.0	-74.9"
TRAJ: 600 yds. zero	-1.5"	46.9"	81.7"	98.9"	94.1"	62.4"	0.0
VELOCITY (fps)	1700	1505	1335	1195	1090	1014	956
ENERGY (ft.-lbs.)	770	604	475	380	316	274	244
TRAJ: 100 yds. zero	-1.5"	0.0	-13.9"	-47.4"	-105.2"	-191.9"	-311.2"
TRAJ: 200 yds. zero	-1.5"	7.0"	0.0	-26.5"	-77.4"	-157.2"	-269.5"
TRAJ: 300 yds. zero	-1.5"	15.8"	17.7"	0.0	-42.0"	-113.0"	-216.5"
TRAJ: 400 yds. zero	-1.5"	26.3"	38.7"	31.5"	0.0	-60.4"	-153.5"
TRAJ: 500 yds. zero	-1.5"	38.4"	62.9"	67.8"	48.3"	0.0	-80.9"
TRAJ: 600 yds. zero	-1.5"	51.9"	89.8"	108.2"	102.3"	67.4"	0.0
VELOCITY (fps)	1600	1417	1261	1138	1049	984	932
ENERGY (ft.-lbs.)	682	535	423	345	293	258	231
TRAJ: 100 yds. zero	-1.5"	0.0	-15.9"	-53.7"	-118.2"	-213.7"	-343.6"
TRAJ: 200 yds. zero	-1.5"	7.9"	0.0	-29.9"	-86.4"	-174.0"	-296.0"
TRAJ: 300 yds. zero	-1.5"	17.9"	19.9"	0.0	-46.6"	-124.2"	-236.3"
TRAJ: 400 yds. zero	-1.5"	29.5"	43.2"	35.0"	0.0	-65.9"	-166.3"
TRAJ: 500 yds. zero	-1.5"	42.7"	69.6"	74.5"	52.8"	0.0	-87.2"
TRAJ: 600 yds. zero	-1.5"	57.3"	98.7"	118.1"	110.9"	72.7"	0.0

7MM CALIBER (.284" Dia.) 139 GRAIN SPIRE POINT
SECTIONAL DENSITY: .246 BALLISTIC COEFFICIENT: .392

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3136	2887	2652	2428	2216	2014
ENERGY (ft.-lbs.)	3567	3034	2572	2170	1819	1515	1252
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.3"	-19.4"	-36.5"	-60.7"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.2"	-15.3"	-31.4"	-54.5"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.5"	0.0	-8.4"	-22.7"	-44.1"
TRAJ: 400 yds. zero	-1.5"	4.9"	7.7"	6.3"	0.0	-12.2"	-31.5"
TRAJ: 500 yds. zero	-1.5"	7.3"	12.6"	13.6"	9.8"	0.0	-16.9"
TRAJ: 600 yds. zero	-1.5"	10.1"	18.2"	22.1"	21.0"	14.1"	0.0
VELOCITY (fps)	3300	3042	2798	2567	2348	2140	1942
ENERGY (ft.-lbs.)	3361	2855	2416	2034	1701	1413	1164
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.0"	-21.0"	-39.3"	-65.2"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.6"	-16.4"	-33.6"	-58.4"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.7"	0.0	-9.0"	-24.3"	-47.2"
TRAJ: 400 yds. zero	-1.5"	5.2"	8.2"	6.8"	0.0	-13.1"	-33.7"
TRAJ: 500 yds. zero	-1.5"	7.9"	13.4"	14.6"	10.5"	0.0	-18.1"
TRAJ: 600 yds. zero	-1.5"	10.9"	19.5"	23.6"	22.5"	15.1"	0.0
VELOCITY (fps)	3200	2948	2709	2483	2268	2063	1870
ENERGY (ft.-lbs.)	3160	2681	2265	1902	1587	1314	1079
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-9.8"	-22.7"	-42.3"	-70.2"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.0"	-17.6"	-36.1"	-62.7"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.0"	0.0	-9.6"	-26.1"	-50.7"
TRAJ: 400 yds. zero	-1.5"	5.7"	8.8"	7.2"	0.0	-14.0"	-36.2"
TRAJ: 500 yds. zero	-1.5"	8.5"	14.4"	15.6"	11.2"	0.0	-19.4"
TRAJ: 600 yds. zero	-1.5"	11.7"	20.9"	25.3"	24.1"	16.2"	0.0
VELOCITY (fps)	3100	2853	2620	2398	2187	1987	1798
ENERGY (ft.-lbs.)	2966	2512	2118	1774	1476	1218	998
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.6"	-24.5"	-45.7"	-75.8"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.5"	-19.0"	-38.8"	-67.4"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.3"	0.0	-10.4"	-28.0"	-54.5"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.5"	7.8"	0.0	-15.1"	-39.0"
TRAJ: 500 yds. zero	-1.5"	9.1"	15.5"	16.8"	12.0"	0.0	-20.9"
TRAJ: 600 yds. zero	-1.5"	12.6"	22.5"	27.3"	26.0"	17.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2759	2530	2312	2106	1910	1726
ENERGY (ft.-lbs.)	2777	2349	1975	1650	1368	1126	920
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.6"	-26.6"	-49.5"	-82.0"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.0"	-20.5"	-41.8"	-72.8"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.7"	0.0	-11.2"	-30.2"	-58.8"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.2"	8.4"	0.0	-16.2"	-42.0"
TRAJ: 500 yds. zero	-1.5"	9.9"	16.7"	18.1"	13.0"	0.0	-22.6"
TRAJ: 600 yds. zero	-1.5"	13.7"	24.3"	29.4"	28.0"	18.8"	0.0
VELOCITY (fps)	2900	2664	2440	2227	2025	1834	1655
ENERGY (ft.-lbs.)	2595	2190	1837	1530	1265	1038	846
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.7"	-29.0"	-53.8"	-88.9"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.6"	-22.1"	-45.2"	-78.7"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.0"	0.0	-12.1"	-32.6"	-63.6"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.1"	9.0"	0.0	-17.6"	-45.5"
TRAJ: 500 yds. zero	-1.5"	10.8"	18.1"	19.6"	14.0"	0.0	-24.4"
TRAJ: 600 yds. zero	-1.5"	14.8"	26.2"	31.8"	30.3"	20.4"	0.0
VELOCITY (fps)	2800	2569	2350	2141	1943	1758	1585
ENERGY (ft.-lbs.)	2419	2037	1704	1415	1166	953	776
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-13.9"	-31.6"	-58.5"	-96.7"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.2"	-24.0"	-49.0"	-85.4"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.5"	0.0	-13.1"	-35.4"	-69.0"
TRAJ: 400 yds. zero	-1.5"	7.9"	12.0"	9.8"	0.0	-19.0"	-49.4"
TRAJ: 500 yds. zero	-1.5"	11.7"	19.6"	21.2"	15.2"	0.0	-26.5"
TRAJ: 600 yds. zero	-1.5"	16.1"	28.5"	34.5"	32.9"	22.1"	0.0
VELOCITY (fps)	2700	2474	2259	2055	1863	1682	1517
ENERGY (ft.-lbs.)	2250	1889	1575	1304	1071	873	710
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.2"	-34.5"	-63.8"	-105.5"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-8.9"	-26.1"	-53.3"	-92.9"
TRAJ: 300 yds. zero	-1.5"	5.1"	5.9"	0.0	-14.2"	-38.5"	-75.1"
TRAJ: 400 yds. zero	-1.5"	8.6"	13.1"	10.7"	0.0	-20.7"	-53.8"
TRAJ: 500 yds. zero	-1.5"	12.8"	21.3"	23.1"	16.6"	0.0	-28.9"
TRAJ: 600 yds. zero	-1.5"	17.6"	31.0"	37.5"	35.8"	24.1"	0.0
VELOCITY (fps)	2600	2379	2169	1970	1782	1608	1450
ENERGY (ft.-lbs.)	2086	1747	1452	1197	980	798	648
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-16.7"	-37.8"	-69.8"	-115.4"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.7"	-28.5"	-58.2"	-101.4"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.5"	0.0	-15.5"	-42.0"	-81.9"
TRAJ: 400 yds. zero	-1.5"	9.4"	14.2"	11.6"	0.0	-22.6"	-58.7"
TRAJ: 500 yds. zero	-1.5"	14.0"	23.3"	25.2"	18.1"	0.0	-31.6"
TRAJ: 600 yds. zero	-1.5"	19.2"	33.8"	41.0"	39.1"	26.3"	0.0
VELOCITY (fps)	2500	2284	2079	1885	1703	1535	1385
ENERGY (ft.-lbs.)	1929	1610	1333	1096	895	727	592
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-18.4"	-41.5"	-76.6"	-126.6"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.7"	-31.1"	-63.7"	-111.0"
TRAJ: 300 yds. zero	-1.5"	6.1"	7.1"	0.0	-16.9"	-45.9"	-89.7"
TRAJ: 400 yds. zero	-1.5"	10.4"	15.6"	12.7"	0.0	-24.7"	-64.3"
TRAJ: 500 yds. zero	-1.5"	15.3"	25.5"	27.5"	19.8"	0.0	-34.6"
TRAJ: 600 yds. zero	-1.5"	21.1"	37.0"	44.9"	42.9"	28.9"	0.0
VELOCITY (fps)	2400	2189	1989	1800	1624	1464	1323
ENERGY (ft.-lbs.)	1777	1479	1220	1000	814	662	540
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-20.4"	-45.7"	-84.3"	-139.3"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.7"	-34.2"	-69.9"	-121.9"
TRAJ: 300 yds. zero	-1.5"	6.8"	7.8"	0.0	-18.6"	-50.4"	-98.5"
TRAJ: 400 yds. zero	-1.5"	11.4"	17.1"	13.9"	0.0	-27.2"	-70.7"
TRAJ: 500 yds. zero	-1.5"	16.9"	28.0"	30.2"	21.7"	0.0	-38.1"
TRAJ: 600 yds. zero	-1.5"	23.2"	40.6"	49.3"	47.1"	31.7"	0.0
VELOCITY (fps)	2300	2094	1899	1716	1547	1395	1264
ENERGY (ft.-lbs.)	1632	1353	1113	909	739	601	493
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-22.6"	-50.6"	-93.1"	-153.6"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-12.9"	-37.6"	-77.0"	-134.3"
TRAJ: 300 yds. zero	-1.5"	7.5"	8.6"	0.0	-20.5"	-55.5"	-108.5"
TRAJ: 400 yds. zero	-1.5"	12.6"	18.8"	15.3"	0.0	-29.9"	-77.8"
TRAJ: 500 yds. zero	-1.5"	18.6"	30.8"	33.3"	24.0"	0.0	-41.9"
TRAJ: 600 yds. zero	-1.5"	25.6"	44.8"	54.2"	51.9"	34.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2200	1999	1810	1633	1472	1330	1209
ENERGY (ft.-lbs.)	1494	1233	1011	823	669	546	451
TRAJ: 100 yds. zero	-1.5"	0.0	-7.2"	-25.1"	-56.1"	-103.1"	-170.0"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-14.3"	-41.6"	-85.1"	-148.3"
TRAJ: 300 yds. zero	-1.5"	8.4"	9.5"	0.0	-22.6"	-61.3"	-119.8"
TRAJ: 400 yds. zero	-1.5"	14.0"	20.8"	16.9"	0.0	-33.0"	-85.9"
TRAJ: 500 yds. zero	-1.5"	20.6"	34.0"	36.8"	26.4"	0.0	-46.2"
TRAJ: 600 yds. zero	-1.5"	28.3"	49.4"	59.9"	57.3"	38.5"	0.0
VELOCITY (fps)	2100	1905	1721	1552	1400	1267	1159
ENERGY (ft.-lbs.)	1361	1119	914	744	605	496	415
TRAJ: 100 yds. zero	-1.5"	0.0	-8.1"	-28.0"	-62.4"	-114.6"	-188.5"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-15.8"	-46.2"	-94.3"	-164.2"
TRAJ: 300 yds. zero	-1.5"	9.3"	10.6"	0.0	-25.0"	-67.9"	-132.5"
TRAJ: 400 yds. zero	-1.5"	15.6"	23.1"	18.8"	0.0	-36.6"	-94.9"
TRAJ: 500 yds. zero	-1.5"	22.9"	37.7"	40.7"	29.3"	0.0	-51.0"
TRAJ: 600 yds. zero	-1.5"	31.4"	54.7"	66.2"	63.3"	42.5"	0.0
VELOCITY (fps)	2000	1811	1634	1473	1330	1210	1114
ENERGY (ft.-lbs.)	1234	1012	824	670	546	451	383
TRAJ: 100 yds. zero	-1.5"	0.0	-9.1"	-31.3"	-69.6"	-127.6"	-209.5"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-17.6"	-51.3"	-104.8"	-182.1"
TRAJ: 300 yds. zero	-1.5"	10.4"	11.8"	0.0	-27.8"	-75.4"	-146.8"
TRAJ: 400 yds. zero	-1.5"	17.4"	25.7"	20.9"	0.0	-40.6"	-105.1"
TRAJ: 500 yds. zero	-1.5"	25.5"	41.9"	45.2"	32.5"	0.0	-56.3"
TRAJ: 600 yds. zero	-1.5"	34.9"	60.7"	73.4"	70.0"	46.9"	0.0
VELOCITY (fps)	1900	1717	1548	1396	1265	1157	1074
ENERGY (ft.-lbs.)	1114	910	740	602	493	413	356
TRAJ: 100 yds. zero	-1.5"	0.0	-10.3"	-35.2"	-78.0"	-142.5"	-233.1"
TRAJ: 200 yds. zero	-1.5"	5.2"	0.0	-19.7"	-57.3"	-116.7"	-202.1"
TRAJ: 300 yds. zero	-1.5"	11.7"	13.1"	0.0	-31.0"	-83.9"	-162.7"
TRAJ: 400 yds. zero	-1.5"	19.5"	28.7"	23.3"	0.0	-45.1"	-116.1"
TRAJ: 500 yds. zero	-1.5"	28.5"	46.7"	50.3"	36.1"	0.0	-62.0"
TRAJ: 600 yds. zero	-1.5"	38.8"	67.4"	81.3"	77.4"	51.7"	0.0
VELOCITY (fps)	1800	1624	1464	1323	1203	1109	1039
ENERGY (ft.-lbs.)	1000	814	662	540	447	380	333
TRAJ: 100 yds. zero	-1.5"	0.0	-11.7"	-39.7"	-87.6"	-159.5"	-259.4"
TRAJ: 200 yds. zero	-1.5"	5.9"	0.0	-22.1"	-64.2"	-130.2"	-224.3"
TRAJ: 300 yds. zero	-1.5"	13.2"	14.7"	0.0	-34.7"	-93.4"	-180.1"
TRAJ: 400 yds. zero	-1.5"	21.9"	32.1"	26.0"	0.0	-50.0"	-128.0"
TRAJ: 500 yds. zero	-1.5"	31.9"	52.1"	56.0"	40.0"	0.0	-68.0"
TRAJ: 600 yds. zero	-1.5"	43.2"	74.8"	90.0"	85.4"	56.7"	0.0
VELOCITY (fps)	1700	1533	1383	1253	1148	1068	1007
ENERGY (ft.-lbs.)	892	725	590	484	406	352	313
TRAJ: 100 yds. zero	-1.5"	0.0	-13.3"	-44.9"	-98.7"	-178.7"	-288.8"
TRAJ: 200 yds. zero	-1.5"	6.7"	0.0	-24.9"	-72.0"	-145.4"	-248.8"
TRAJ: 300 yds. zero	-1.5"	15.0"	16.6"	0.0	-38.8"	-103.9"	-198.9"
TRAJ: 400 yds. zero	-1.5"	24.7"	36.0"	29.1"	0.0	-55.4"	-140.8"
TRAJ: 500 yds. zero	-1.5"	35.7"	58.2"	62.3"	44.3"	0.0	-74.3"
TRAJ: 600 yds. zero	-1.5"	48.1"	82.9"	99.5"	93.8"	61.9"	0.0
VELOCITY (fps)	1600	1442	1304	1188	1098	1030	977
ENERGY (ft.-lbs.)	790	642	525	436	372	327	295
TRAJ: 100 yds. zero	-1.5"	0.0	-15.2"	-51.0"	-111.3"	-200.3"	-321.2"
TRAJ: 200 yds. zero	-1.5"	7.6"	0.0	-28.1"	-80.8"	-162.1"	-275.4"
TRAJ: 300 yds. zero	-1.5"	17.0"	18.7"	0.0	-43.4"	-115.3"	-219.2"
TRAJ: 400 yds. zero	-1.5"	27.8"	40.4"	32.5"	0.0	-61.1"	-154.1"
TRAJ: 500 yds. zero	-1.5"	40.1"	64.9"	69.2"	48.9"	0.0	-80.8"
TRAJ: 600 yds. zero	-1.5"	53.5"	91.8"	109.6"	102.8"	67.4"	0.0

7MM CALIBER (.284" Dia.) 139 GRAIN FLAT POINT
SECTIONAL DENSITY: .246 BALLISTIC COEFFICIENT: .196

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	3400	3136	2887	2652	2428	2216	2014
ENERGY (ft.-lbs.)	3567	3034	2572	2170	1819	1515	1252
TRAJ: 50 yds. zero	-1.5"	0.0	0.6"	0.2"	-1.5"	-4.6"	-9.5"
TRAJ: 100 yds. zero	-1.5"	-0.3"	0.0	-0.7"	-2.7"	-6.2"	-11.4"
TRAJ: 150 yds. zero	-1.5"	-0.1"	0.5"	0.0	-1.7"	-4.9"	-9.9"
TRAJ: 200 yds. zero	-1.5"	0.4"	1.4"	1.3"	0.0	-2.8"	-7.3"
TRAJ: 250 yds. zero	-1.5"	0.9"	2.5"	3.0"	2.2"	0.0	-4.0"
TRAJ: 300 yds. zero	-1.5"	1.6"	3.8"	5.0"	4.9"	3.3"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	3300	3042	2798	2567	2348	2140	1942
ENERGY (ft.-lbs.)	3361	2855	2416	2034	1701	1413	1164
TRAJ: 50 yds. zero	-1.5"	0.0	0.6"	0.0	-1.9"	-5.3"	-10.7"
TRAJ: 100 yds. zero	-1.5"	-0.3"	0.0	-0.8"	-3.0"	-6.7"	-12.4"
TRAJ: 150 yds. zero	-1.5"	-0.0"	0.6"	0.0	-1.9"	-5.3"	-10.7"
TRAJ: 200 yds. zero	-1.5"	0.5"	1.5"	1.4"	0.0	-3.0"	-7.9"
TRAJ: 250 yds. zero	-1.5"	1.1"	2.7"	3.2"	2.4"	0.0	-4.3"
TRAJ: 300 yds. zero	-1.5"	1.8"	4.1"	5.3"	5.2"	3.6"	0.0
VELOCITY (fps)	3200	2948	2709	2483	2268	2063	1870
ENERGY (ft.-lbs.)	3160	2681	2265	1902	1587	1314	1079
TRAJ: 50 yds. zero	-1.5"	0.0	0.5"	-0.2"	-2.3"	-6.1"	-11.9"
TRAJ: 100 yds. zero	-1.5"	-0.2"	0.0	-0.9"	-3.3"	-7.3"	-13.4"
TRAJ: 150 yds. zero	-1.5"	0.1"	0.6"	0.0	-2.0"	-5.8"	-11.5"
TRAJ: 200 yds. zero	-1.5"	0.6"	1.6"	1.5"	0.0	-3.2"	-8.5"
TRAJ: 250 yds. zero	-1.5"	1.2"	2.9"	3.5"	2.6"	0.0	-4.6"
TRAJ: 300 yds. zero	-1.5"	2.0"	4.5"	5.8"	5.7"	3.9"	0.0
VELOCITY (fps)	3100	2853	2620	2398	2187	1987	1798
ENERGY (ft.-lbs.)	2966	2512	2118	1774	1476	1218	998
TRAJ: 50 yds. zero	-1.5"	0.0	0.4"	-0.4"	-2.8"	-6.9"	-13.3"
TRAJ: 100 yds. zero	-1.5"	-0.2"	0.0	-1.1"	-3.6"	-8.0"	-14.6"
TRAJ: 150 yds. zero	-1.5"	0.1"	0.7"	0.0	-2.2"	-6.3"	-12.5"
TRAJ: 200 yds. zero	-1.5"	0.7"	1.8"	1.7"	0.0	-3.5"	-9.2"
TRAJ: 250 yds. zero	-1.5"	1.4"	3.2"	3.8"	2.8"	0.0	-5.0"
TRAJ: 300 yds. zero	-1.5"	2.2"	4.9"	6.3"	6.1"	4.2"	0.0
VELOCITY (fps)	3000	2759	2530	2312	2106	1910	1726
ENERGY (ft.-lbs.)	2777	2349	1975	1650	1368	1126	920
TRAJ: 50 yds. zero	-1.5"	0.0	0.4"	-0.6"	-3.3"	-7.9"	-14.9"
TRAJ: 100 yds. zero	-1.5"	-0.2"	0.0	-1.2"	-4.0"	-8.8"	-15.9"
TRAJ: 150 yds. zero	-1.5"	0.2"	0.8"	0.0	-2.4"	-6.8"	-13.6"
TRAJ: 200 yds. zero	-1.5"	0.8"	2.0"	1.8"	0.0	-3.8"	-9.9"
TRAJ: 250 yds. zero	-1.5"	1.6"	3.5"	4.1"	3.0"	0.0	-5.4"
TRAJ: 300 yds. zero	-1.5"	2.5"	5.3"	6.8"	6.6"	4.5"	0.0
VELOCITY (fps)	2900	2664	2440	2227	2025	1834	1655
ENERGY (ft.-lbs.)	2595	2190	1837	1530	1265	1038	846
TRAJ: 50 yds. zero	-1.5"	0.0	0.3"	-0.9"	-3.9"	-8.9"	-16.6"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.3"	-4.4"	-9.6"	-17.4"
TRAJ: 150 yds. zero	-1.5"	0.3"	0.9"	0.0	-2.6"	-7.4"	-14.8"
TRAJ: 200 yds. zero	-1.5"	1.0"	2.2"	2.0"	0.0	-4.1"	-10.8"
TRAJ: 250 yds. zero	-1.5"	1.8"	3.8"	4.4"	3.3"	0.0	-5.9"
TRAJ: 300 yds. zero	-1.5"	2.8"	5.8"	7.4"	7.2"	4.9"	0.0
VELOCITY (fps)	2800	2569	2350	2141	1943	1758	1585
ENERGY (ft.-lbs.)	2419	2037	1704	1415	1166	953	776
TRAJ: 50 yds. zero	-1.5"	0.0	0.2"	-1.2"	-4.5"	-10.1"	-18.6"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.5"	-4.9"	-10.6"	-19.1"
TRAJ: 150 yds. zero	-1.5"	0.4"	1.0"	0.0	-2.9"	-8.1"	-16.1"
TRAJ: 200 yds. zero	-1.5"	1.1"	2.4"	2.2"	0.0	-4.5"	-11.8"
TRAJ: 250 yds. zero	-1.5"	2.0"	4.2"	4.9"	3.6"	0.0	-6.4"
TRAJ: 300 yds. zero	-1.5"	3.1"	6.4"	8.1"	7.9"	5.3"	0.0
VELOCITY (fps)	2700	2474	2259	2055	1863	1682	1517
ENERGY (ft.-lbs.)	2250	1889	1575	1304	1071	873	710
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.6"	-5.2"	-11.5"	-20.7"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-1.7"	-5.4"	-11.6"	-21.0"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.1"	0.0	-3.2"	-8.9"	-17.6"
TRAJ: 200 yds. zero	-1.5"	1.3"	2.7"	2.4"	0.0	-4.9"	-12.9"
TRAJ: 250 yds. zero	-1.5"	2.3"	4.7"	5.3"	3.9"	0.0	-7.0"
TRAJ: 300 yds. zero	-1.5"	3.5"	7.0"	8.8"	8.6"	5.8"	0.0
VELOCITY (fps)	2600	2379	2169	1970	1782	1608	1450
ENERGY (ft.-lbs.)	2086	1747	1452	1197	980	798	648
TRAJ: 50 yds. zero	-1.5"	0.0	-0.0"	-1.9"	-6.1"	-13.0"	-23.2"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.9"	-6.0"	-12.9"	-23.1"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.2"	0.0	-3.5"	-9.7"	-19.4"
TRAJ: 200 yds. zero	-1.5"	1.5"	3.0"	2.6"	0.0	-5.4"	-14.1"
TRAJ: 250 yds. zero	-1.5"	2.6"	5.1"	5.8"	4.3"	0.0	-7.7"
TRAJ: 300 yds. zero	-1.5"	3.9"	7.7"	9.7"	9.4"	6.4"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2500	2284	2079	1885	1703	1535	1385
ENERGY (ft.-lbs.)	1929	1610	1333	1096	895	727	592
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.4"	-7.0"	-14.7"	-26.0"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.1"	-6.7"	-14.2"	-25.5"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-3.9"	-10.7"	-21.3"
TRAJ: 200 yds. zero	-1.5"	1.8"	3.3"	2.9"	0.0	-5.9"	-15.5"
TRAJ: 250 yds. zero	-1.5"	2.9"	5.7"	6.4"	4.7"	0.0	-8.4"
TRAJ: 300 yds. zero	-1.5"	4.3"	8.5"	10.7"	10.3"	7.0"	0.0
VELOCITY (fps)	2400	2189	1989	1800	1624	1464	1323
ENERGY (ft.-lbs.)	1777	1479	1220	1000	814	662	540
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-2.8"	-8.1"	-16.6"	-29.2"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.4"	-7.4"	-15.8"	-28.2"
TRAJ: 150 yds. zero	-1.5"	0.9"	1.6"	0.0	-4.3"	-11.8"	-23.5"
TRAJ: 200 yds. zero	-1.5"	2.0"	3.7"	3.2"	0.0	-6.5"	-17.1"
TRAJ: 250 yds. zero	-1.5"	3.3"	6.3"	7.1"	5.2"	0.0	-9.3"
TRAJ: 300 yds. zero	-1.5"	4.9"	9.4"	11.8"	11.4"	7.7"	0.0
VELOCITY (fps)	2300	2094	1899	1716	1547	1395	1264
ENERGY (ft.-lbs.)	1632	1353	1113	909	739	601	493
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.4"	-9.3"	-18.8"	-32.8"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.7"	-8.3"	-17.6"	-31.3"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.8"	0.0	-4.7"	-13.1"	-26.0"
TRAJ: 200 yds. zero	-1.5"	2.3"	4.1"	3.6"	0.0	-7.2"	-18.9"
TRAJ: 250 yds. zero	-1.5"	3.8"	7.0"	7.9"	5.8"	0.0	-10.2"
TRAJ: 300 yds. zero	-1.5"	5.5"	10.4"	13.0"	12.6"	8.5"	0.0
VELOCITY (fps)	2200	1999	1810	1633	1472	1330	1209
ENERGY (ft.-lbs.)	1494	1233	1011	823	669	546	451
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.0"	-10.6"	-21.3"	-36.9"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-3.0"	-9.3"	-19.6"	-34.8"
TRAJ: 150 yds. zero	-1.5"	1.3"	2.0"	0.0	-5.3"	-14.6"	-28.8"
TRAJ: 200 yds. zero	-1.5"	2.7"	4.6"	4.0"	0.0	-8.0"	-20.9"
TRAJ: 250 yds. zero	-1.5"	4.3"	7.8"	8.7"	6.4"	0.0	-11.3"
TRAJ: 300 yds. zero	-1.5"	6.1"	11.6"	14.4"	13.9"	9.4"	0.0
VELOCITY (fps)	2100	1905	1721	1552	1400	1267	1159
ENERGY (ft.-lbs.)	1361	1119	914	744	605	496	415
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-4.7"	-12.2"	-24.1"	-41.5"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.4"	-10.4"	-21.9"	-38.8"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.3"	0.0	-5.9"	-16.2"	-32.0"
TRAJ: 200 yds. zero	-1.5"	3.1"	5.2"	4.4"	0.0	-8.9"	-23.2"
TRAJ: 250 yds. zero	-1.5"	4.8"	8.8"	9.7"	7.1"	0.0	-12.5"
TRAJ: 300 yds. zero	-1.5"	6.9"	12.9"	16.0"	15.4"	10.4"	0.0
VELOCITY (fps)	2000	1811	1634	1473	1330	1210	1114
ENERGY (ft.-lbs.)	1234	1012	824	670	546	451	383
TRAJ: 50 yds. zero	-1.5"	0.0	-1.2"	-5.6"	-14.0"	-27.4"	-46.7"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.8"	-11.7"	-24.5"	-43.3"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.6"	0.0	-6.6"	-18.1"	-35.6"
TRAJ: 200 yds. zero	-1.5"	3.5"	5.9"	4.9"	0.0	-9.9"	-25.7"
TRAJ: 250 yds. zero	-1.5"	5.5"	9.8"	10.9"	7.9"	0.0	-13.9"
TRAJ: 300 yds. zero	-1.5"	7.8"	14.4"	17.8"	17.1"	11.5"	0.0
VELOCITY (fps)	1900	1717	1548	1396	1265	1157	1074
ENERGY (ft.-lbs.)	1114	910	740	602	493	413	356
TRAJ: 50 yds. zero	-1.5"	0.0	-1.5"	-6.6"	-16.1"	-31.1"	-52.6"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.4"	-13.2"	-27.5"	-48.3"
TRAJ: 150 yds. zero	-1.5"	2.2"	2.9"	0.0	-7.4"	-20.2"	-39.5"
TRAJ: 200 yds. zero	-1.5"	4.0"	6.6"	5.5"	0.0	-11.0"	-28.5"
TRAJ: 250 yds. zero	-1.5"	6.2"	11.0"	12.1"	8.8"	0.0	-15.3"
TRAJ: 300 yds. zero	-1.5"	8.8"	16.1"	19.8"	19.0"	12.7"	0.0
VELOCITY (fps)	1800	1624	1464	1323	1203	1109	1039
ENERGY (ft.-lbs.)	1000	814	662	540	447	380	333
TRAJ: 50 yds. zero	-1.5"	0.0	-1.8"	-7.7"	-18.5"	-35.4"	-59.2"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-5.0"	-14.9"	-30.9"	-53.8"
TRAJ: 150 yds. zero	-1.5"	2.6"	3.3"	0.0	-8.3"	-22.6"	-43.9"
TRAJ: 200 yds. zero	-1.5"	4.6"	7.5"	6.2"	0.0	-12.2"	-31.4"
TRAJ: 250 yds. zero	-1.5"	7.1"	12.3"	13.6"	9.8"	0.0	-16.8"
TRAJ: 300 yds. zero	-1.5"	9.9"	17.9"	21.9"	21.0"	14.0"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1700	1533	1383	1253	1148	1068	1007
ENERGY (ft.-lbs.)	892	725	590	484	406	352	313
TRAJ: 50 yds. zero	-1.5"	0.0	-2.2"	-9.0"	-21.3"	-40.2"	-66.6"
TRAJ: 100 yds. zero	-1.5"	1.1"	0.0	-5.7"	-16.9"	-34.7"	-59.9"
TRAJ: 150 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.3"	-25.2"	-48.6"
TRAJ: 200 yds. zero	-1.5"	5.3"	8.4"	7.0"	0.0	-13.6"	-34.6"
TRAJ: 250 yds. zero	-1.5"	8.0"	13.9"	15.1"	10.9"	0.0	-18.3"
TRAJ: 300 yds. zero	-1.5"	11.1"	20.0"	24.3"	23.1"	15.3"	0.0
VELOCITY (fps)	1600	1442	1304	1188	1098	1030	977
ENERGY (ft.-lbs.)	790	642	525	436	372	327	295
TRAJ: 50 yds. zero	-1.5"	0.0	-2.7"	-10.5"	-24.5"	-45.6"	-74.7"
TRAJ: 100 yds. zero	-1.5"	1.3"	0.0	-6.5"	-19.1"	-38.8"	-66.6"
TRAJ: 150 yds. zero	-1.5"	3.5"	4.3"	0.0	-10.5"	-28.1"	-53.7"
TRAJ: 200 yds. zero	-1.5"	6.1"	9.5"	7.9"	0.0	-15.0"	-38.0"
TRAJ: 250 yds. zero	-1.5"	9.1"	15.5"	16.8"	12.0"	0.0	-20.0"
TRAJ: 300 yds. zero	-1.5"	12.4"	22.2"	26.8"	25.3"	16.7"	0.0

7MM CALIBER (.284" Dia.) 139 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .246 BALLISTIC COEFFICIENT: .453

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3170	2952	2745	2547	2358	2176
ENERGY (ft.-lbs.)	3567	3101	2690	2325	2002	1715	1461
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-7.9"	-18.5"	-34.4"	-56.6"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.0"	-14.6"	-29.5"	-50.7"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.3"	0.0	-7.9"	-21.2"	-40.8"
TRAJ: 400 yds. zero	-1.5"	4.6"	7.3"	5.9"	0.0	-11.3"	-28.9"
TRAJ: 500 yds. zero	-1.5"	6.9"	11.8"	12.7"	9.0"	0.0	-15.3"
TRAJ: 600 yds. zero	-1.5"	9.4"	16.9"	20.4"	19.3"	12.8"	0.0
VELOCITY (fps)	3300	3076	2862	2659	2465	2279	2101
ENERGY (ft.-lbs.)	3361	2919	2528	2182	1875	1602	1362
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-8.6"	-20.0"	-37.0"	-60.8"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.3"	-15.6"	-31.6"	-54.3"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.6"	0.0	-8.5"	-22.7"	-43.6"
TRAJ: 400 yds. zero	-1.5"	5.0"	7.8"	6.4"	0.0	-12.1"	-30.9"
TRAJ: 500 yds. zero	-1.5"	7.4"	12.6"	13.6"	9.7"	0.0	-16.4"
TRAJ: 600 yds. zero	-1.5"	10.1"	18.1"	21.8"	20.6"	13.6"	0.0
VELOCITY (fps)	3200	2981	2772	2573	2382	2200	2025
ENERGY (ft.-lbs.)	3160	2742	2371	2043	1751	1493	1266
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.4"	-21.6"	-39.9"	-65.4"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.7"	-16.7"	-33.9"	-58.2"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.8"	0.0	-9.1"	-24.3"	-46.7"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.4"	6.8"	0.0	-12.9"	-33.1"
TRAJ: 500 yds. zero	-1.5"	8.0"	13.5"	14.6"	10.4"	0.0	-17.5"
TRAJ: 600 yds. zero	-1.5"	10.9"	19.4"	23.4"	22.1"	14.6"	0.0
VELOCITY (fps)	3100	2886	2681	2486	2299	2120	1949
ENERGY (ft.-lbs.)	2966	2570	2219	1907	1631	1387	1173
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.2"	-23.4"	-43.1"	-70.6"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.2"	-18.0"	-36.4"	-62.5"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.1"	0.0	-9.8"	-26.1"	-50.2"
TRAJ: 400 yds. zero	-1.5"	5.8"	9.0"	7.3"	0.0	-13.9"	-35.5"
TRAJ: 500 yds. zero	-1.5"	8.6"	14.6"	15.7"	11.1"	0.0	-18.9"
TRAJ: 600 yds. zero	-1.5"	11.8"	20.8"	25.1"	23.7"	15.7"	0.0
VELOCITY (fps)	3000	2790	2590	2399	2216	2041	1874
ENERGY (ft.-lbs.)	2777	2403	2071	1776	1515	1285	1083
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.1"	-25.3"	-46.6"	-76.3"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.7"	-19.4"	-39.2"	-67.4"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.4"	0.0	-10.5"	-28.1"	-54.0"
TRAJ: 400 yds. zero	-1.5"	6.3"	9.7"	7.9"	0.0	-15.0"	-38.3"
TRAJ: 500 yds. zero	-1.5"	9.3"	15.7"	16.8"	12.0"	0.0	-20.3"
TRAJ: 600 yds. zero	-1.5"	12.7"	22.5"	27.0"	25.5"	16.9"	0.0
VELOCITY (fps)	2900	2695	2499	2312	2132	1961	1798
ENERGY (ft.-lbs.)	2595	2241	1927	1649	1403	1187	998
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.2"	-27.5"	-50.6"	-82.7"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.2"	-21.0"	-42.3"	-72.8"
TRAJ: 300 yds. zero	-1.5"	4.1"	4.8"	0.0	-11.3"	-30.3"	-58.4"
TRAJ: 400 yds. zero	-1.5"	6.9"	10.5"	8.5"	0.0	-16.2"	-41.4"
TRAJ: 500 yds. zero	-1.5"	10.1"	16.9"	18.2"	12.9"	0.0	-22.0"
TRAJ: 600 yds. zero	-1.5"	13.8"	24.3"	29.2"	27.6"	18.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2800	2600	2408	2224	2049	1881	1723
ENERGY (ft.-lbs.)	2419	2085	1789	1527	1295	1092	917
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-13.3"	-30.0"	-55.0"	-89.8"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.8"	-22.7"	-45.9"	-78.9"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.2"	0.0	-12.3"	-32.8"	-63.2"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.4"	9.2"	0.0	-17.5"	-44.8"
TRAJ: 500 yds. zero	-1.5"	11.0"	18.3"	19.7"	14.0"	0.0	-23.8"
TRAJ: 600 yds. zero	-1.5"	15.0"	26.3"	31.6"	29.9"	19.9"	0.0
VELOCITY (fps)	2700	2504	2316	2137	1965	1802	1649
ENERGY (ft.-lbs.)	2250	1935	1656	1409	1191	1002	839
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-14.6"	-32.8"	-60.0"	-97.9"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.5"	-24.7"	-49.8"	-85.7"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.7"	0.0	-13.3"	-35.6"	-68.7"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.3"	10.0"	0.0	-19.0"	-48.7"
TRAJ: 500 yds. zero	-1.5"	12.0"	19.9"	21.4"	15.2"	0.0	-25.9"
TRAJ: 600 yds. zero	-1.5"	16.3"	28.6"	34.4"	32.5"	21.6"	0.0
VELOCITY (fps)	2600	2408	2225	2049	1882	1724	1576
ENERGY (ft.-lbs.)	2086	1790	1527	1295	1093	917	767
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.0"	-35.9"	-65.6"	-107.0"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.3"	-26.9"	-54.3"	-93.5"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.2"	0.0	-14.5"	-38.8"	-74.9"
TRAJ: 400 yds. zero	-1.5"	9.0"	13.4"	10.9"	0.0	-20.7"	-53.2"
TRAJ: 500 yds. zero	-1.5"	13.1"	21.7"	23.3"	16.6"	0.0	-28.3"
TRAJ: 600 yds. zero	-1.5"	17.8"	31.2"	37.5"	35.4"	23.6"	0.0
VELOCITY (fps)	2500	2312	2133	1962	1799	1646	1505
ENERGY (ft.-lbs.)	1929	1650	1404	1187	999	836	699
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-17.7"	-39.4"	-71.9"	-117.3"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.2"	-29.4"	-59.4"	-102.2"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.8"	0.0	-15.8"	-42.4"	-81.9"
TRAJ: 400 yds. zero	-1.5"	9.9"	14.7"	11.9"	0.0	-22.6"	-58.2"
TRAJ: 500 yds. zero	-1.5"	14.4"	23.7"	25.5"	18.1"	0.0	-31.0"
TRAJ: 600 yds. zero	-1.5"	19.5"	34.1"	41.0"	38.8"	25.8"	0.0
VELOCITY (fps)	2400	2217	2041	1875	1717	1570	1435
ENERGY (ft.-lbs.)	1777	1516	1286	1084	910	761	636
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-19.5"	-43.4"	-79.1"	-128.9"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.2"	-32.2"	-65.1"	-112.2"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.4"	0.0	-17.4"	-46.5"	-89.9"
TRAJ: 400 yds. zero	-1.5"	10.8"	16.1"	13.0"	0.0	-24.8"	-63.9"
TRAJ: 500 yds. zero	-1.5"	15.8"	26.0"	27.9"	19.9"	0.0	-34.0"
TRAJ: 600 yds. zero	-1.5"	21.5"	37.4"	44.9"	42.6"	28.4"	0.0
VELOCITY (fps)	2300	2121	1950	1788	1636	1496	1369
ENERGY (ft.-lbs.)	1632	1388	1174	987	826	690	578
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-21.6"	-47.9"	-87.3"	-142.2"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.3"	-35.5"	-71.7"	-123.5"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.2"	0.0	-19.1"	-51.2"	-98.9"
TRAJ: 400 yds. zero	-1.5"	12.0"	17.7"	14.3"	0.0	-27.3"	-70.3"
TRAJ: 500 yds. zero	-1.5"	17.5"	28.7"	30.7"	21.9"	0.0	-37.5"
TRAJ: 600 yds. zero	-1.5"	23.7"	41.2"	49.5"	46.9"	31.2"	0.0
VELOCITY (fps)	2200	2025	1859	1703	1557	1424	1305
ENERGY (ft.-lbs.)	1494	1266	1067	895	748	625	525
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-24.1"	-53.1"	-96.6"	-157.3"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.6"	-39.2"	-79.1"	-136.4"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.0"	0.0	-21.1"	-56.5"	-109.2"
TRAJ: 400 yds. zero	-1.5"	13.3"	19.6"	15.8"	0.0	-30.2"	-77.6"
TRAJ: 500 yds. zero	-1.5"	19.3"	31.7"	33.9"	24.2"	0.0	-41.4"
TRAJ: 600 yds. zero	-1.5"	26.2"	45.5"	54.6"	51.7"	34.5"	0.0
VELOCITY (fps)	2100	1930	1769	1619	1480	1354	1245
ENERGY (ft.-lbs.)	1361	1150	966	809	676	566	478
TRAJ: 100 yds. zero	-1.5"	0.0	-7.8"	-26.8"	-59.1"	-107.3"	-174.6"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-15.1"	-43.4"	-87.7"	-151.0"
TRAJ: 300 yds. zero	-1.5"	8.9"	10.0"	0.0	-23.3"	-62.6"	-120.9"
TRAJ: 400 yds. zero	-1.5"	14.8"	21.7"	17.5"	0.0	-33.4"	-85.9"
TRAJ: 500 yds. zero	-1.5"	21.5"	35.1"	37.6"	26.7"	0.0	-45.8"
TRAJ: 600 yds. zero	-1.5"	29.1"	50.3"	60.5"	57.3"	38.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2000	1835	1680	1536	1405	1288	1189
ENERGY (ft.-lbs.)	1234	1040	871	728	609	512	436
TRAJ: 100 yds. zero	-1.5"	0.0	-8.8"	-30.0"	-66.0"	-119.6"	-194.3"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-16.8"	-48.3"	-97.5"	-167.7"
TRAJ: 300 yds. zero	-1.5"	10.0"	11.2"	0.0	-26.0"	-69.6"	-134.2"
TRAJ: 400 yds. zero	-1.5"	16.5"	24.2"	19.5"	0.0	-37.1"	-95.3"
TRAJ: 500 yds. zero	-1.5"	23.9"	39.0"	41.7"	29.7"	0.0	-50.7"
TRAJ: 600 yds. zero	-1.5"	32.4"	55.9"	67.1"	63.5"	42.3"	0.0
VELOCITY (fps)	1900	1741	1592	1456	1333	1226	1139
ENERGY (ft.-lbs.)	1114	935	782	654	548	464	400
TRAJ: 100 yds. zero	-1.5"	0.0	-10.0"	-33.7"	-73.9"	-133.7"	-216.7"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-18.7"	-53.9"	-108.8"	-186.7"
TRAJ: 300 yds. zero	-1.5"	11.2"	12.5"	0.0	-28.9"	-77.5"	-149.3"
TRAJ: 400 yds. zero	-1.5"	18.5"	27.0"	21.7"	0.0	-41.3"	-105.8"
TRAJ: 500 yds. zero	-1.5"	26.7"	43.5"	46.5"	33.1"	0.0	-56.2"
TRAJ: 600 yds. zero	-1.5"	36.1"	62.2"	74.6"	70.6"	46.9"	0.0
VELOCITY (fps)	1800	1647	1506	1377	1265	1170	1094
ENERGY (ft.-lbs.)	1000	837	700	586	494	422	370
TRAJ: 100 yds. zero	-1.5"	0.0	-11.3"	-38.0"	-83.1"	-149.9"	-242.2"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-21.0"	-60.4"	-121.6"	-208.2"
TRAJ: 300 yds. zero	-1.5"	12.7"	14.0"	0.0	-32.4"	-86.5"	-166.1"
TRAJ: 400 yds. zero	-1.5"	20.8"	30.2"	24.3"	0.0	-46.1"	-117.6"
TRAJ: 500 yds. zero	-1.5"	30.0"	48.6"	51.9"	36.9"	0.0	-62.3"
TRAJ: 600 yds. zero	-1.5"	40.4"	69.4"	83.1"	78.4"	51.9"	0.0
VELOCITY (fps)	1700	1554	1421	1303	1201	1119	1055
ENERGY (ft.-lbs.)	892	746	623	524	445	386	343
TRAJ: 100 yds. zero	-1.5"	0.0	-12.9"	-43.1"	-93.8"	-168.6"	-271.0"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-23.7"	-67.9"	-136.3"	-232.2"
TRAJ: 300 yds. zero	-1.5"	14.4"	15.8"	0.0	-36.3"	-96.8"	-184.8"
TRAJ: 400 yds. zero	-1.5"	23.4"	34.0"	27.2"	0.0	-51.3"	-130.3"
TRAJ: 500 yds. zero	-1.5"	33.7"	54.5"	58.1"	41.1"	0.0	-68.7"
TRAJ: 600 yds. zero	-1.5"	45.2"	77.4"	92.4"	86.9"	57.2"	0.0
VELOCITY (fps)	1600	1463	1339	1232	1143	1074	1019
ENERGY (ft.-lbs.)	790	660	553	468	403	356	320
TRAJ: 100 yds. zero	-1.5"	0.0	-14.8"	-49.0"	-106.1"	-189.7"	-303.1"
TRAJ: 200 yds. zero	-1.5"	7.4"	0.0	-26.8"	-76.5"	-152.8"	-258.8"
TRAJ: 300 yds. zero	-1.5"	16.3"	17.9"	0.0	-40.8"	-108.1"	-205.2"
TRAJ: 400 yds. zero	-1.5"	26.5"	38.3"	30.6"	0.0	-57.1"	-144.0"
TRAJ: 500 yds. zero	-1.5"	37.9"	61.1"	64.9"	45.7"	0.0	-75.4"
TRAJ: 600 yds. zero	-1.5"	50.5"	86.3"	102.6"	96.0"	62.9"	0.0

7MM CALIBER (.284" Dia.) 154 GRAIN SPIRE POINT
SECTIONAL DENSITY: .273 BALLISTIC COEFFICIENT: .433

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2971	2753	2546	2348	2159	1978
ENERGY (ft.-lbs.)	3501	3017	2592	2216	1885	1593	1338
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.5"	-21.9"	-40.6"	-66.8"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.8"	-17.0"	-34.5"	-59.5"
TRAJ: 300 yds. zero	-1.5"	3.2"	3.9"	0.0	-9.2"	-24.8"	-47.8"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.5"	6.9"	0.0	-13.2"	-34.0"
TRAJ: 500 yds. zero	-1.5"	8.1"	13.8"	14.9"	10.6"	0.0	-18.1"
TRAJ: 600 yds. zero	-1.5"	11.1"	19.8"	23.9"	22.6"	15.1"	0.0
VELOCITY (fps)	3100	2876	2663	2460	2265	2080	1904
ENERGY (ft.-lbs.)	3286	2828	2424	2069	1755	1479	1239
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.3"	-23.7"	-43.8"	-72.1"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.3"	-18.3"	-37.1"	-63.9"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.2"	0.0	-9.9"	-26.6"	-51.4"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.1"	7.4"	0.0	-14.2"	-36.5"
TRAJ: 500 yds. zero	-1.5"	8.8"	14.8"	16.0"	11.4"	0.0	-19.4"
TRAJ: 600 yds. zero	-1.5"	12.0"	21.3"	25.7"	24.3"	16.2"	0.0
VELOCITY (fps)	3000	2781	2572	2373	2183	2001	1829
ENERGY (ft.-lbs.)	3077	2644	2262	1926	1629	1369	1144
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.3"	-25.7"	-47.5"	-77.9"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.8"	-19.7"	-40.0"	-68.9"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.5"	0.0	-10.7"	-28.7"	-55.4"
TRAJ: 400 yds. zero	-1.5"	6.4"	9.9"	8.0"	0.0	-15.3"	-39.4"
TRAJ: 500 yds. zero	-1.5"	9.5"	16.0"	17.2"	12.3"	0.0	-21.0"
TRAJ: 600 yds. zero	-1.5"	13.0"	23.0"	27.7"	26.2"	17.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2686	2482	2286	2100	1923	1755
ENERGY (ft.-lbs.)	2875	2466	2105	1787	1508	1264	1053
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.3"	-27.9"	-51.5"	-84.5"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.3"	-21.3"	-43.2"	-74.5"
TRAJ: 300 yds. zero	-1.5"	4.1"	4.9"	0.0	-11.5"	-31.0"	-59.9"
TRAJ: 400 yds. zero	-1.5"	7.0"	10.6"	8.7"	0.0	-16.6"	-42.5"
TRAJ: 500 yds. zero	-1.5"	10.3"	17.3"	18.6"	13.2"	0.0	-22.7"
TRAJ: 600 yds. zero	-1.5"	14.1"	24.8"	29.9"	28.4"	18.9"	0.0
VELOCITY (fps)	2800	2591	2390	2199	2017	1844	1681
ENERGY (ft.-lbs.)	2680	2294	1954	1654	1391	1163	967
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-13.5"	-30.5"	-56.0"	-91.8"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.9"	-23.1"	-46.8"	-80.7"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.3"	0.0	-12.5"	-33.6"	-64.9"
TRAJ: 400 yds. zero	-1.5"	7.6"	11.5"	9.4"	0.0	-17.9"	-46.1"
TRAJ: 500 yds. zero	-1.5"	11.2"	18.7"	20.1"	14.3"	0.0	-24.6"
TRAJ: 600 yds. zero	-1.5"	15.3"	26.9"	32.4"	30.8"	20.5"	0.0
VELOCITY (fps)	2700	2495	2299	2112	1934	1766	1609
ENERGY (ft.-lbs.)	2492	2128	1807	1525	1279	1066	885
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-14.8"	-33.3"	-61.1"	-100.1"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.6"	-25.1"	-50.8"	-87.8"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.8"	0.0	-13.6"	-36.5"	-70.5"
TRAJ: 400 yds. zero	-1.5"	8.3"	12.5"	10.2"	0.0	-19.5"	-50.2"
TRAJ: 500 yds. zero	-1.5"	12.2"	20.3"	21.9"	15.6"	0.0	-26.8"
TRAJ: 600 yds. zero	-1.5"	16.7"	29.3"	35.3"	33.4"	22.3"	0.0
VELOCITY (fps)	2600	2400	2208	2025	1852	1689	1538
ENERGY (ft.-lbs.)	2311	1969	1667	1402	1172	975	808
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.2"	-36.4"	-66.8"	-109.4"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.4"	-27.3"	-55.4"	-95.7"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.3"	0.0	-14.8"	-39.7"	-76.9"
TRAJ: 400 yds. zero	-1.5"	9.1"	13.7"	11.1"	0.0	-21.3"	-54.7"
TRAJ: 500 yds. zero	-1.5"	13.4"	22.2"	23.8"	17.0"	0.0	-29.2"
TRAJ: 600 yds. zero	-1.5"	18.2"	31.9"	38.5"	36.5"	24.4"	0.0
VELOCITY (fps)	2500	2304	2117	1938	1770	1613	1468
ENERGY (ft.-lbs.)	2137	1815	1532	1285	1071	889	737
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-17.9"	-40.0"	-73.3"	-119.9"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.3"	-29.9"	-60.6"	-104.8"
TRAJ: 300 yds. zero	-1.5"	6.0"	6.9"	0.0	-16.1"	-43.4"	-84.1"
TRAJ: 400 yds. zero	-1.5"	10.0"	14.9"	12.1"	0.0	-23.2"	-59.9"
TRAJ: 500 yds. zero	-1.5"	14.7"	24.2"	26.1"	18.6"	0.0	-32.0"
TRAJ: 600 yds. zero	-1.5"	20.0"	34.9"	42.1"	39.9"	26.7"	0.0
VELOCITY (fps)	2400	2208	2026	1852	1689	1538	1401
ENERGY (ft.-lbs.)	1969	1667	1403	1173	975	809	671
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-19.8"	-44.1"	-80.6"	-131.9"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.3"	-32.8"	-66.5"	-115.0"
TRAJ: 300 yds. zero	-1.5"	6.6"	7.5"	0.0	-17.7"	-47.6"	-92.4"
TRAJ: 400 yds. zero	-1.5"	11.0"	16.4"	13.3"	0.0	-25.5"	-65.8"
TRAJ: 500 yds. zero	-1.5"	16.1"	26.6"	28.6"	20.4"	0.0	-35.2"
TRAJ: 600 yds. zero	-1.5"	22.0"	38.3"	46.2"	43.9"	29.3"	0.0
VELOCITY (fps)	2300	2113	1935	1767	1609	1465	1336
ENERGY (ft.-lbs.)	1809	1526	1280	1067	886	734	610
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-21.9"	-48.7"	-89.0"	-145.5"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-12.5"	-36.1"	-73.2"	-126.6"
TRAJ: 300 yds. zero	-1.5"	7.3"	8.3"	0.0	-19.5"	-52.4"	-101.7"
TRAJ: 400 yds. zero	-1.5"	12.2"	18.0"	14.6"	0.0	-28.1"	-72.4"
TRAJ: 500 yds. zero	-1.5"	17.8"	29.3"	31.5"	22.5"	0.0	-38.7"
TRAJ: 600 yds. zero	-1.5"	24.2"	42.2"	50.8"	48.3"	32.3"	0.0
VELOCITY (fps)	2200	2018	1845	1682	1531	1395	1275
ENERGY (ft.-lbs.)	1655	1392	1163	967	802	665	555
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-24.4"	-54.0"	-98.5"	-161.0"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.8"	-39.9"	-80.9"	-139.8"
TRAJ: 300 yds. zero	-1.5"	8.1"	9.2"	0.0	-21.5"	-57.9"	-112.2"
TRAJ: 400 yds. zero	-1.5"	13.5"	19.9"	16.1"	0.0	-31.0"	-80.0"
TRAJ: 500 yds. zero	-1.5"	19.7"	32.3"	34.7"	24.8"	0.0	-42.8"
TRAJ: 600 yds. zero	-1.5"	26.8"	46.6"	56.1"	53.3"	35.6"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2100	1923	1755	1599	1455	1327	1217
ENERGY (ft.-lbs.)	1508	1264	1053	874	724	602	507
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-27.2"	-60.1"	-109.4"	-178.6"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-15.3"	-44.2"	-89.6"	-154.8"
TRAJ: 300 yds. zero	-1.5"	9.1"	10.2"	0.0	-23.8"	-64.1"	-124.3"
TRAJ: 400 yds. zero	-1.5"	15.0"	22.1"	17.9"	0.0	-34.3"	-88.5"
TRAJ: 500 yds. zero	-1.5"	21.9"	35.8"	38.5"	27.5"	0.0	-47.3"
TRAJ: 600 yds. zero	-1.5"	29.8"	51.6"	62.1"	59.0"	39.4"	0.0
VELOCITY (fps)	2000	1828	1666	1517	1382	1264	1165
ENERGY (ft.-lbs.)	1368	1142	949	787	653	546	464
TRAJ: 100 yds. zero	-1.5"	0.0	-8.9"	-30.4"	-67.0"	-121.9"	-198.7"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-17.0"	-49.2"	-99.6"	-171.9"
TRAJ: 300 yds. zero	-1.5"	10.1"	11.3"	0.0	-26.5"	-71.2"	-137.9"
TRAJ: 400 yds. zero	-1.5"	16.8"	24.6"	19.9"	0.0	-38.1"	-98.1"
TRAJ: 500 yds. zero	-1.5"	24.4"	39.8"	42.7"	30.5"	0.0	-52.4"
TRAJ: 600 yds. zero	-1.5"	33.1"	57.3"	68.9"	65.4"	43.6"	0.0
VELOCITY (fps)	1900	1734	1579	1438	1312	1205	1118
ENERGY (ft.-lbs.)	1234	1028	853	707	588	496	427
TRAJ: 100 yds. zero	-1.5"	0.0	-10.1"	-34.2"	-75.1"	-136.3"	-221.5"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-19.0"	-54.9"	-111.1"	-191.2"
TRAJ: 300 yds. zero	-1.5"	11.4"	12.7"	0.0	-29.5"	-79.4"	-153.2"
TRAJ: 400 yds. zero	-1.5"	18.8"	27.5"	22.2"	0.0	-42.4"	-108.9"
TRAJ: 500 yds. zero	-1.5"	27.3"	44.4"	47.6"	33.9"	0.0	-57.9"
TRAJ: 600 yds. zero	-1.5"	36.9"	63.7"	76.6"	72.6"	48.3"	0.0
VELOCITY (fps)	1800	1640	1493	1361	1246	1151	1077
ENERGY (ft.-lbs.)	1108	920	762	633	531	453	396
TRAJ: 100 yds. zero	-1.5"	0.0	-11.4"	-38.5"	-84.4"	-152.8"	-247.3"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-21.3"	-61.5"	-124.1"	-213.0"
TRAJ: 300 yds. zero	-1.5"	12.8"	14.2"	0.0	-33.1"	-88.6"	-170.3"
TRAJ: 400 yds. zero	-1.5"	21.1"	30.8"	24.8"	0.0	-47.2"	-120.7"
TRAJ: 500 yds. zero	-1.5"	30.6"	49.7"	53.1"	37.8"	0.0	-64.0"
TRAJ: 600 yds. zero	-1.5"	41.2"	71.0"	85.1"	80.5"	53.3"	0.0
VELOCITY (fps)	1700	1548	1410	1287	1184	1103	1039
ENERGY (ft.-lbs.)	988	819	679	567	480	416	369
TRAJ: 100 yds. zero	-1.5"	0.0	-13.0"	-43.6"	-95.2"	-171.6"	-276.2"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-24.1"	-69.1"	-139.0"	-237.1"
TRAJ: 300 yds. zero	-1.5"	14.5"	16.0"	0.0	-37.0"	-98.9"	-189.0"
TRAJ: 400 yds. zero	-1.5"	23.8"	34.6"	27.8"	0.0	-52.6"	-133.5"
TRAJ: 500 yds. zero	-1.5"	34.3"	55.6"	59.3"	42.1"	0.0	-70.4"
TRAJ: 600 yds. zero	-1.5"	46.0"	79.0"	94.5"	89.0"	58.6"	0.0
VELOCITY (fps)	1600	1457	1328	1218	1129	1060	1006
ENERGY (ft.-lbs.)	875	725	603	507	436	384	346
TRAJ: 100 yds. zero	-1.5"	0.0	-14.9"	-49.6"	-107.6"	-192.8"	-308.5"
TRAJ: 200 yds. zero	-1.5"	7.5"	0.0	-27.2"	-77.8"	-155.6"	-263.8"
TRAJ: 300 yds. zero	-1.5"	16.5"	18.1"	0.0	-41.6"	-110.3"	-209.4"
TRAJ: 400 yds. zero	-1.5"	26.9"	38.9"	31.2"	0.0	-58.3"	-147.1"
TRAJ: 500 yds. zero	-1.5"	38.6"	62.2"	66.2"	46.6"	0.0	-77.1"
TRAJ: 600 yds. zero	-1.5"	51.4"	87.9"	104.7"	98.1"	64.3"	0.0
VELOCITY (fps)	1500	1367	1251	1155	1080	1021	975
ENERGY (ft.-lbs.)	769	639	535	456	398	357	325
TRAJ: 100 yds. zero	-1.5"	0.0	-17.1"	-56.5"	-121.9"	-216.8"	-344.3"
TRAJ: 200 yds. zero	-1.5"	8.6"	0.0	-30.8"	-87.6"	-174.0"	-292.9"
TRAJ: 300 yds. zero	-1.5"	18.8"	20.5"	0.0	-46.6"	-122.6"	-231.3"
TRAJ: 400 yds. zero	-1.5"	30.5"	43.8"	34.9"	0.0	-64.4"	-161.5"
TRAJ: 500 yds. zero	-1.5"	43.4"	69.6"	73.6"	51.6"	0.0	-84.2"
TRAJ: 600 yds. zero	-1.5"	57.4"	97.6"	115.7"	107.7"	70.1"	0.0

7MM CALIBER (.284" Dia.) 154 GRAIN ROUND NOSE
SECTIONAL DENSITY: .273 BALLISTIC COEFFICIENT: .279

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2849	2525	2223	1942	1685	1456
ENERGY (ft.-lbs.)	3501	2776	2180	1689	1289	970	725
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-11.1"	-26.4"	-51.1"	-88.1"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.9"	-20.8"	-44.1"	-79.7"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.6"	0.0	-11.7"	-32.6"	-65.9"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.4"	8.7"	0.0	-18.0"	-48.4"
TRAJ: 500 yds. zero	-1.5"	10.2"	17.6"	19.6"	14.4"	0.0	-26.8"
TRAJ: 600 yds. zero	-1.5"	14.7"	26.6"	33.0"	32.3"	22.3"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2757	2439	2143	1868	1618	1399
ENERGY (ft.-lbs.)	3286	2599	2034	1570	1193	895	669
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-12.1"	-28.6"	-55.3"	-95.3"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.4"	-22.5"	-47.5"	-86.0"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.9"	0.0	-12.6"	-35.2"	-71.2"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.2"	9.4"	0.0	-19.5"	-52.4"
TRAJ: 500 yds. zero	-1.5"	11.1"	19.0"	21.1"	15.6"	0.0	-29.0"
TRAJ: 600 yds. zero	-1.5"	15.9"	28.7"	35.6"	34.9"	24.2"	0.0
VELOCITY (fps)	3000	2665	2353	2063	1795	1553	1344
ENERGY (ft.-lbs.)	3077	2428	1893	1455	1101	824	618
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-13.2"	-31.1"	-60.0"	-103.4"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-8.0"	-24.3"	-51.4"	-93.1"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.3"	0.0	-13.6"	-38.0"	-77.1"
TRAJ: 400 yds. zero	-1.5"	7.8"	12.1"	10.2"	0.0	-21.1"	-56.7"
TRAJ: 500 yds. zero	-1.5"	12.0"	20.6"	22.8"	16.9"	0.0	-31.4"
TRAJ: 600 yds. zero	-1.5"	17.2"	31.0"	38.5"	37.8"	26.2"	0.0
VELOCITY (fps)	2900	2572	2267	1982	1721	1488	1291
ENERGY (ft.-lbs.)	2875	2262	1756	1344	1013	757	570
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.4"	-33.9"	-65.2"	-112.4"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.7"	-26.3"	-55.8"	-101.1"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.8"	0.0	-14.7"	-41.3"	-83.7"
TRAJ: 400 yds. zero	-1.5"	8.5"	13.2"	11.0"	0.0	-22.9"	-61.6"
TRAJ: 500 yds. zero	-1.5"	13.0"	22.3"	24.8"	18.3"	0.0	-34.2"
TRAJ: 600 yds. zero	-1.5"	18.7"	33.7"	41.8"	41.1"	28.5"	0.0
VELOCITY (fps)	2800	2479	2180	1902	1649	1426	1241
ENERGY (ft.-lbs.)	2680	2101	1625	1237	930	695	526
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.7"	-37.0"	-71.1"	-122.6"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.5"	-28.6"	-60.6"	-110.0"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.3"	0.0	-16.0"	-44.9"	-91.1"
TRAJ: 400 yds. zero	-1.5"	9.2"	14.3"	12.0"	0.0	-24.9"	-67.1"
TRAJ: 500 yds. zero	-1.5"	14.2"	24.3"	26.9"	19.9"	0.0	-37.2"
TRAJ: 600 yds. zero	-1.5"	20.4"	36.7"	45.5"	44.7"	31.0"	0.0
VELOCITY (fps)	2700	2386	2093	1823	1578	1365	1194
ENERGY (ft.-lbs.)	2492	1946	1498	1136	851	637	487
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-17.3"	-40.4"	-77.7"	-133.9"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.3"	-31.2"	-66.1"	-120.0"
TRAJ: 300 yds. zero	-1.5"	5.8"	6.9"	0.0	-17.4"	-48.9"	-99.4"
TRAJ: 400 yds. zero	-1.5"	10.1"	15.6"	13.1"	0.0	-27.2"	-73.2"
TRAJ: 500 yds. zero	-1.5"	15.5"	26.5"	29.4"	21.7"	0.0	-40.6"
TRAJ: 600 yds. zero	-1.5"	22.3"	40.0"	49.7"	48.8"	33.9"	0.0
VELOCITY (fps)	2600	2293	2007	1744	1508	1307	1151
ENERGY (ft.-lbs.)	2311	1797	1377	1039	777	584	453
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-19.0"	-44.4"	-85.2"	-146.6"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.3"	-34.1"	-72.3"	-131.2"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.5"	0.0	-19.0"	-53.5"	-108.6"
TRAJ: 400 yds. zero	-1.5"	11.1"	17.0"	14.3"	0.0	-29.7"	-80.0"
TRAJ: 500 yds. zero	-1.5"	17.0"	28.9"	32.1"	23.8"	0.0	-44.4"
TRAJ: 600 yds. zero	-1.5"	24.4"	43.7"	54.3"	53.4"	37.0"	0.0
VELOCITY (fps)	2500	2200	1920	1665	1440	1252	1112
ENERGY (ft.-lbs.)	2137	1654	1261	948	709	536	422
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-21.0"	-48.8"	-93.6"	-160.8"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.4"	-37.4"	-79.3"	-143.6"
TRAJ: 300 yds. zero	-1.5"	7.0"	8.2"	0.0	-20.9"	-58.7"	-118.9"
TRAJ: 400 yds. zero	-1.5"	12.2"	18.7"	15.7"	0.0	-32.6"	-87.6"
TRAJ: 500 yds. zero	-1.5"	18.7"	31.7"	35.2"	26.1"	0.0	-48.5"
TRAJ: 600 yds. zero	-1.5"	26.8"	47.9"	59.5"	58.4"	40.4"	0.0
VELOCITY (fps)	2400	2106	1835	1588	1374	1201	1077
ENERGY (ft.-lbs.)	1969	1517	1151	863	645	493	396
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-23.2"	-53.9"	-103.2"	-176.7"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.6"	-41.1"	-87.2"	-157.5"
TRAJ: 300 yds. zero	-1.5"	7.7"	9.1"	0.0	-23.0"	-64.5"	-130.3"
TRAJ: 400 yds. zero	-1.5"	13.5"	20.5"	17.2"	0.0	-35.8"	-95.9"
TRAJ: 500 yds. zero	-1.5"	20.6"	34.9"	38.7"	28.7"	0.0	-52.9"
TRAJ: 600 yds. zero	-1.5"	29.4"	52.5"	65.2"	63.9"	44.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2300	2013	1750	1513	1311	1154	1045
ENERGY (ft.-lbs.)	1809	1386	1047	783	588	455	374
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-25.7"	-59.6"	-113.9"	-194.2"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-15.0"	-45.3"	-96.0"	-172.8"
TRAJ: 300 yds. zero	-1.5"	8.6"	10.0"	0.0	-25.3"	-71.0"	-142.8"
TRAJ: 400 yds. zero	-1.5"	14.9"	22.7"	19.0"	0.0	-39.4"	-104.8"
TRAJ: 500 yds. zero	-1.5"	22.8"	38.4"	42.6"	31.5"	0.0	-57.5"
TRAJ: 600 yds. zero	-1.5"	32.4"	57.6"	71.4"	69.9"	47.9"	0.0
VELOCITY (fps)	2200	1921	1666	1440	1252	1112	1017
ENERGY (ft.-lbs.)	1655	1262	949	709	536	423	353
TRAJ: 100 yds. zero	-1.5"	0.0	-8.0"	-28.6"	-66.1"	-125.9"	-213.5"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-16.6"	-50.1"	-106.0"	-189.5"
TRAJ: 300 yds. zero	-1.5"	9.5"	11.1"	0.0	-28.0"	-78.3"	-156.3"
TRAJ: 400 yds. zero	-1.5"	16.5"	25.1"	21.0"	0.0	-43.3"	-114.3"
TRAJ: 500 yds. zero	-1.5"	25.2"	42.4"	47.0"	34.6"	0.0	-62.4"
TRAJ: 600 yds. zero	-1.5"	35.6"	63.2"	78.1"	76.2"	52.0"	0.0
VELOCITY (fps)	2100	1829	1583	1370	1197	1074	991
ENERGY (ft.-lbs.)	1508	1144	857	641	490	395	336
TRAJ: 100 yds. zero	-1.5"	0.0	-9.0"	-31.9"	-73.5"	-139.4"	-234.7"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-18.5"	-55.6"	-117.0"	-207.8"
TRAJ: 300 yds. zero	-1.5"	10.6"	12.3"	0.0	-31.0"	-86.3"	-170.8"
TRAJ: 400 yds. zero	-1.5"	18.4"	27.8"	23.2"	0.0	-47.5"	-124.4"
TRAJ: 500 yds. zero	-1.5"	27.9"	46.8"	51.8"	38.0"	0.0	-67.3"
TRAJ: 600 yds. zero	-1.5"	39.1"	69.3"	85.4"	82.9"	56.1"	0.0
VELOCITY (fps)	2000	1737	1502	1302	1147	1041	967
ENERGY (ft.-lbs.)	1368	1032	772	580	450	370	319
TRAJ: 100 yds. zero	-1.5"	0.0	-10.1"	-35.7"	-81.9"	-154.4"	-257.8"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-20.6"	-61.7"	-129.2"	-227.5"
TRAJ: 300 yds. zero	-1.5"	11.9"	13.7"	0.0	-34.3"	-94.9"	-186.4"
TRAJ: 400 yds. zero	-1.5"	20.5"	30.9"	25.7"	0.0	-52.0"	-134.9"
TRAJ: 500 yds. zero	-1.5"	30.9"	51.7"	56.9"	41.6"	0.0	-72.5"
TRAJ: 600 yds. zero	-1.5"	43.0"	75.8"	93.2"	89.9"	60.4"	0.0
VELOCITY (fps)	1900	1647	1424	1239	1103	1011	944
ENERGY (ft.-lbs.)	1234	927	693	525	416	349	305
TRAJ: 100 yds. zero	-1.5"	0.0	-11.4"	-40.1"	-91.4"	-171.0"	-283.0"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-23.0"	-68.6"	-142.5"	-248.7"
TRAJ: 300 yds. zero	-1.5"	13.4"	15.3"	0.0	-38.0"	-104.2"	-202.8"
TRAJ: 400 yds. zero	-1.5"	22.9"	34.3"	28.5"	0.0	-56.7"	-145.8"
TRAJ: 500 yds. zero	-1.5"	34.2"	57.0"	62.5"	45.3"	0.0	-77.8"
TRAJ: 600 yds. zero	-1.5"	47.2"	82.9"	101.4"	97.2"	64.8"	0.0
VELOCITY (fps)	1800	1558	1348	1181	1063	983	922
ENERGY (ft.-lbs.)	1108	829	621	477	387	330	291
TRAJ: 100 yds. zero	-1.5"	0.0	-12.9"	-45.1"	-102.1"	-189.2"	-310.3"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-25.7"	-76.3"	-156.9"	-271.5"
TRAJ: 300 yds. zero	-1.5"	15.0"	17.1"	0.0	-42.0"	-114.1"	-220.2"
TRAJ: 400 yds. zero	-1.5"	25.5"	38.1"	31.5"	0.0	-61.5"	-157.1"
TRAJ: 500 yds. zero	-1.5"	37.8"	62.8"	68.5"	49.2"	0.0	-83.2"
TRAJ: 600 yds. zero	-1.5"	51.7"	90.5"	110.1"	104.7"	69.4"	0.0
VELOCITY (fps)	1700	1470	1276	1128	1028	957	901
ENERGY (ft.-lbs.)	988	738	556	435	361	313	278
TRAJ: 100 yds. zero	-1.5"	0.0	-14.7"	-50.8"	-114.0"	-209.1"	-339.9"
TRAJ: 200 yds. zero	-1.5"	7.3"	0.0	-28.8"	-84.7"	-172.4"	-295.9"
TRAJ: 300 yds. zero	-1.5"	16.9"	19.2"	0.0	-46.3"	-124.4"	-238.3"
TRAJ: 400 yds. zero	-1.5"	28.5"	42.3"	34.7"	0.0	-66.6"	-168.9"
TRAJ: 500 yds. zero	-1.5"	41.8"	69.0"	74.7"	53.3"	0.0	-89.0"
TRAJ: 600 yds. zero	-1.5"	56.7"	98.6"	119.2"	112.6"	74.2"	0.0
VELOCITY (fps)	1600	1384	1208	1082	996	932	880
ENERGY (ft.-lbs.)	875	655	499	400	339	297	265
TRAJ: 100 yds. zero	-1.5"	0.0	-16.7"	-57.3"	-127.2"	-230.8"	-372.2"
TRAJ: 200 yds. zero	-1.5"	8.4"	0.0	-32.2"	-93.7"	-188.9"	-321.9"
TRAJ: 300 yds. zero	-1.5"	19.1"	21.5"	0.0	-50.8"	-135.3"	-257.5"
TRAJ: 400 yds. zero	-1.5"	31.8"	46.8"	38.1"	0.0	-71.8"	-181.4"
TRAJ: 500 yds. zero	-1.5"	46.2"	75.6"	81.2"	57.5"	0.0	-95.2"
TRAJ: 600 yds. zero	-1.5"	62.0"	107.3"	128.8"	120.9"	79.3"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1500	1300	1146	1040	966	908	860
ENERGY (ft.-lbs.)	769	578	449	370	319	282	253
TRAJ: 100 yds. zero	-1.5"	0.0	-19.1"	-64.6"	-141.6"	-254.5"	-407.2"
TRAJ: 200 yds. zero	-1.5"	9.6"	0.0	-35.9"	-103.4"	-206.6"	-349.8"
TRAJ: 300 yds. zero	-1.5"	21.5"	23.9"	0.0	-55.5"	-146.8"	-278.0"
TRAJ: 400 yds. zero	-1.5"	35.4"	51.7"	41.6"	0.0	-77.4"	-194.8"
TRAJ: 500 yds. zero	-1.5"	50.9"	82.7"	88.1"	61.9"	0.0	-101.9"
TRAJ: 600 yds. zero	-1.5"	67.9"	116.6"	139.0"	129.9"	84.9"	0.0

7MM CALIBER (.284" Dia.) 162 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .534

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2917	2742	2574	2412	2255	2104
ENERGY (ft.-lbs.)	3456	3061	2705	2383	2092	1829	1593
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-9.8"	-22.3"	-40.7"	-66.0"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-5.9"	-17.1"	-34.2"	-58.2"
TRAJ: 300 yds. zero	-1.5"	3.3"	3.9"	0.0	-9.2"	-24.4"	-46.4"
TRAJ: 400 yds. zero	-1.5"	5.6"	8.5"	6.9"	0.0	-12.9"	-32.6"
TRAJ: 500 yds. zero	-1.5"	8.1"	13.7"	14.6"	10.3"	0.0	-17.1"
TRAJ: 600 yds. zero	-1.5"	11.0"	19.4"	23.2"	21.7"	14.3"	0.0
VELOCITY (fps)	3000	2822	2650	2485	2326	2173	2025
ENERGY (ft.-lbs.)	3237	2863	2526	2221	1946	1698	1475
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-10.7"	-24.1"	-44.0"	-71.3"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.4"	-18.4"	-36.9"	-62.7"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.3"	0.0	-9.9"	-26.2"	-49.9"
TRAJ: 400 yds. zero	-1.5"	6.0"	9.2"	7.4"	0.0	-13.8"	-35.1"
TRAJ: 500 yds. zero	-1.5"	8.8"	14.7"	15.7"	11.1"	0.0	-18.4"
TRAJ: 600 yds. zero	-1.5"	11.9"	20.9"	25.0"	23.4"	15.4"	0.0
VELOCITY (fps)	2900	2726	2558	2396	2240	2090	1946
ENERGY (ft.-lbs.)	3025	2672	2353	2065	1805	1571	1362
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-11.7"	-26.2"	-47.7"	-77.2"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-6.9"	-19.9"	-39.8"	-67.6"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.6"	0.0	-10.7"	-28.3"	-53.8"
TRAJ: 400 yds. zero	-1.5"	6.6"	9.9"	8.0"	0.0	-14.9"	-37.8"
TRAJ: 500 yds. zero	-1.5"	9.5"	15.9"	17.0"	11.9"	0.0	-19.9"
TRAJ: 600 yds. zero	-1.5"	12.9"	22.5"	26.9"	25.2"	16.6"	0.0
VELOCITY (fps)	2800	2629	2465	2307	2154	2007	1867
ENERGY (ft.-lbs.)	2820	2487	2185	1914	1669	1449	1253
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-12.8"	-28.6"	-51.9"	-83.8"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.5"	-21.5"	-43.1"	-73.2"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.0"	0.0	-11.5"	-30.6"	-58.2"
TRAJ: 400 yds. zero	-1.5"	7.1"	10.8"	8.7"	0.0	-16.1"	-40.9"
TRAJ: 500 yds. zero	-1.5"	10.4"	17.2"	18.3"	12.9"	0.0	-21.6"
TRAJ: 600 yds. zero	-1.5"	14.0"	24.4"	29.1"	27.3"	18.0"	0.0
VELOCITY (fps)	2700	2533	2372	2217	2068	1925	1788
ENERGY (ft.-lbs.)	2622	2308	2024	1768	1538	1332	1150
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.0"	-31.2"	-56.5"	-91.3"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.1"	-23.4"	-46.7"	-79.5"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.4"	0.0	-12.5"	-33.2"	-63.2"
TRAJ: 400 yds. zero	-1.5"	7.8"	11.7"	9.4"	0.0	-17.5"	-44.4"
TRAJ: 500 yds. zero	-1.5"	11.3"	18.7"	19.9"	14.0"	0.0	-23.4"
TRAJ: 600 yds. zero	-1.5"	15.2"	26.5"	31.6"	29.6"	19.5"	0.0
VELOCITY (fps)	2600	2437	2279	2128	1982	1843	1710
ENERGY (ft.-lbs.)	2431	2136	1869	1628	1413	1221	1052
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-15.4"	-34.2"	-61.8"	-99.6"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-8.9"	-25.4"	-50.9"	-86.5"
TRAJ: 300 yds. zero	-1.5"	5.1"	5.9"	0.0	-13.6"	-36.1"	-68.8"
TRAJ: 400 yds. zero	-1.5"	8.5"	12.7"	10.2"	0.0	-19.1"	-48.4"
TRAJ: 500 yds. zero	-1.5"	12.4"	20.3"	21.6"	15.3"	0.0	-25.5"
TRAJ: 600 yds. zero	-1.5"	16.6"	28.8"	34.4"	32.3"	21.3"	0.0
VELOCITY (fps)	2500	2340	2187	2038	1897	1761	1633
ENERGY (ft.-lbs.)	2248	1970	1719	1494	1294	1115	959
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-17.0"	-37.5"	-67.7"	-109.1"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-9.7"	-27.8"	-55.6"	-94.6"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.5"	0.0	-14.8"	-39.4"	-75.1"
TRAJ: 400 yds. zero	-1.5"	9.4"	13.9"	11.1"	0.0	-20.8"	-52.9"
TRAJ: 500 yds. zero	-1.5"	13.5"	22.2"	23.6"	16.7"	0.0	-27.9"
TRAJ: 600 yds. zero	-1.5"	18.2"	31.5"	37.6"	35.2"	23.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2400	2244	2094	1949	1811	1681	1557
ENERGY (ft.-lbs.)	2072	1811	1577	1367	1180	1016	872
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-18.8"	-41.3"	-74.4"	-119.9"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-10.6"	-30.4"	-60.9"	-103.6"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.1"	0.0	-16.3"	-43.1"	-82.3"
TRAJ: 400 yds. zero	-1.5"	10.3"	15.2"	12.2"	0.0	-22.8"	-58.0"
TRAJ: 500 yds. zero	-1.5"	14.9"	24.3"	25.9"	18.2"	0.0	-30.6"
TRAJ: 600 yds. zero	-1.5"	20.0"	34.5"	41.2"	38.6"	25.5"	0.0
VELOCITY (fps)	2300	2148	2001	1861	1727	1601	1484
ENERGY (ft.-lbs.)	1903	1659	1440	1245	1073	922	792
TRAJ: 100 yds. zero	-1.5"	0.0	-6.0"	-20.8"	-45.6"	-82.0"	-132.1"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-11.7"	-33.5"	-66.9"	-114.0"
TRAJ: 300 yds. zero	-1.5"	6.9"	7.8"	0.0	-17.9"	-47.4"	-90.5"
TRAJ: 400 yds. zero	-1.5"	11.4"	16.7"	13.4"	0.0	-25.1"	-63.7"
TRAJ: 500 yds. zero	-1.5"	16.4"	26.8"	28.4"	20.1"	0.0	-33.7"
TRAJ: 600 yds. zero	-1.5"	22.0"	38.0"	45.3"	42.5"	28.1"	0.0
VELOCITY (fps)	2200	2051	1909	1773	1644	1524	1412
ENERGY (ft.-lbs.)	1741	1514	1311	1130	972	835	717
TRAJ: 100 yds. zero	-1.5"	0.0	-6.8"	-23.1"	-50.5"	-90.8"	-146.1"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-12.9"	-37.0"	-73.9"	-125.8"
TRAJ: 300 yds. zero	-1.5"	7.7"	8.6"	0.0	-19.7"	-52.3"	-99.9"
TRAJ: 400 yds. zero	-1.5"	12.6"	18.5"	14.8"	0.0	-27.7"	-70.3"
TRAJ: 500 yds. zero	-1.5"	18.2"	29.5"	31.4"	22.1"	0.0	-37.2"
TRAJ: 600 yds. zero	-1.5"	24.3"	41.9"	50.0"	46.9"	31.0"	0.0
VELOCITY (fps)	2100	1955	1817	1686	1563	1448	1344
ENERGY (ft.-lbs.)	1586	1375	1188	1022	878	754	649
TRAJ: 100 yds. zero	-1.5"	0.0	-7.6"	-25.7"	-56.1"	-100.8"	-162.1"
TRAJ: 200 yds. zero	-1.5"	3.8"	0.0	-14.3"	-40.9"	-81.8"	-139.3"
TRAJ: 300 yds. zero	-1.5"	8.6"	9.6"	0.0	-21.8"	-57.9"	-110.6"
TRAJ: 400 yds. zero	-1.5"	14.0"	20.5"	16.4"	0.0	-30.6"	-77.9"
TRAJ: 500 yds. zero	-1.5"	20.2"	32.7"	34.7"	24.5"	0.0	-41.1"
TRAJ: 600 yds. zero	-1.5"	27.0"	46.4"	55.3"	51.9"	34.3"	0.0
VELOCITY (fps)	2000	1860	1726	1600	1483	1375	1279
ENERGY (ft.-lbs.)	1439	1244	1072	921	791	680	588
TRAJ: 100 yds. zero	-1.5"	0.0	-8.6"	-28.8"	-62.7"	-112.3"	-180.5"
TRAJ: 200 yds. zero	-1.5"	4.3"	0.0	-16.0"	-45.5"	-90.9"	-154.8"
TRAJ: 300 yds. zero	-1.5"	9.6"	10.6"	0.0	-24.2"	-64.3"	-122.8"
TRAJ: 400 yds. zero	-1.5"	15.7"	22.8"	18.2"	0.0	-34.0"	-86.5"
TRAJ: 500 yds. zero	-1.5"	22.5"	36.4"	38.6"	27.2"	0.0	-45.7"
TRAJ: 600 yds. zero	-1.5"	30.1"	51.6"	61.4"	57.7"	38.0"	0.0
VELOCITY (fps)	1900	1764	1636	1516	1405	1306	1218
ENERGY (ft.-lbs.)	1298	1120	963	827	710	613	533
TRAJ: 100 yds. zero	-1.5"	0.0	-9.7"	-32.4"	-70.2"	-125.7"	-201.6"
TRAJ: 200 yds. zero	-1.5"	4.8"	0.0	-17.8"	-50.8"	-101.5"	-172.5"
TRAJ: 300 yds. zero	-1.5"	10.8"	11.9"	0.0	-27.1"	-71.7"	-136.8"
TRAJ: 400 yds. zero	-1.5"	17.6"	25.4"	20.3"	0.0	-37.9"	-96.3"
TRAJ: 500 yds. zero	-1.5"	25.1"	40.6"	43.0"	30.3"	0.0	-50.8"
TRAJ: 600 yds. zero	-1.5"	33.6"	57.5"	68.4"	64.2"	42.3"	0.0
VELOCITY (fps)	1800	1670	1547	1434	1331	1240	1162
ENERGY (ft.-lbs.)	1165	1003	861	740	637	553	486
TRAJ: 100 yds. zero	-1.5"	0.0	-11.0"	-36.5"	-79.0"	-141.1"	-225.8"
TRAJ: 200 yds. zero	-1.5"	5.5"	0.0	-20.0"	-57.0"	-113.6"	-192.9"
TRAJ: 300 yds. zero	-1.5"	12.2"	13.4"	0.0	-30.3"	-80.2"	-152.8"
TRAJ: 400 yds. zero	-1.5"	19.7"	28.5"	22.7"	0.0	-42.4"	-107.4"
TRAJ: 500 yds. zero	-1.5"	28.2"	45.4"	48.1"	33.9"	0.0	-56.5"
TRAJ: 600 yds. zero	-1.5"	37.6"	64.3"	76.4"	71.6"	47.1"	0.0
VELOCITY (fps)	1700	1576	1460	1355	1260	1179	1112
ENERGY (ft.-lbs.)	1039	893	767	660	571	500	445
TRAJ: 100 yds. zero	-1.5"	0.0	-12.5"	-41.4"	-89.2"	-158.9"	-253.6"
TRAJ: 200 yds. zero	-1.5"	6.3"	0.0	-22.6"	-64.1"	-127.6"	-216.1"
TRAJ: 300 yds. zero	-1.5"	13.8"	15.1"	0.0	-34.0"	-89.9"	-170.9"
TRAJ: 400 yds. zero	-1.5"	22.3"	32.1"	25.5"	0.0	-47.4"	-119.9"
TRAJ: 500 yds. zero	-1.5"	31.8"	51.0"	54.0"	37.9"	0.0	-63.0"
TRAJ: 600 yds. zero	-1.5"	42.3"	72.0"	85.4"	79.9"	52.5"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1600	1483	1375	1278	1195	1125	1068
ENERGY (ft.-lbs.)	921	791	680	588	513	455	410
TRAJ: 100 yds. zero	-1.5"	0.0	-14.3"	-47.1"	-101.1"	-179.5"	-285.2"
TRAJ: 200 yds. zero	-1.5"	7.2"	0.0	-25.6"	-72.4"	-143.7"	-242.2"
TRAJ: 300 yds. zero	-1.5"	15.7"	17.0"	0.0	-38.3"	-101.0"	-191.1"
TRAJ: 400 yds. zero	-1.5"	25.3"	36.2"	28.8"	0.0	-53.1"	-133.6"
TRAJ: 500 yds. zero	-1.5"	35.9"	57.5"	60.6"	42.5"	0.0	-69.8"
TRAJ: 600 yds. zero	-1.5"	47.5"	80.7"	95.5"	89.1"	58.2"	0.0
VELOCITY (fps)	1500	1391	1292	1207	1135	1076	1029
ENERGY (ft.-lbs.)	809	696	601	524	463	416	380
TRAJ: 100 yds. zero	-1.5"	0.0	-16.5"	-53.8"	-115.0"	-203.1"	-320.9"
TRAJ: 200 yds. zero	-1.5"	8.2"	0.0	-29.1"	-82.0"	-161.9"	-271.5"
TRAJ: 300 yds. zero	-1.5"	17.9"	19.4"	0.0	-43.3"	-113.4"	-213.3"
TRAJ: 400 yds. zero	-1.5"	28.7"	41.0"	32.4"	0.0	-59.4"	-148.4"
TRAJ: 500 yds. zero	-1.5"	40.6"	64.8"	68.1"	47.5"	0.0	-77.2"
TRAJ: 600 yds. zero	-1.5"	53.5"	90.5"	106.7"	99.0"	64.3"	0.0
VELOCITY (fps)	1400	1301	1214	1140	1081	1032	992
ENERGY (ft.-lbs.)	705	608	530	468	420	383	354
TRAJ: 100 yds. zero	-1.5"	0.0	-19.1"	-61.7"	-131.0"	-229.9"	-360.9"
TRAJ: 200 yds. zero	-1.5"	9.5"	0.0	-33.1"	-92.9"	-182.3"	-303.8"
TRAJ: 300 yds. zero	-1.5"	20.6"	22.1"	0.0	-48.8"	-127.1"	-237.5"
TRAJ: 400 yds. zero	-1.5"	32.8"	46.5"	36.6"	0.0	-66.1"	-164.4"
TRAJ: 500 yds. zero	-1.5"	46.0"	72.9"	76.3"	52.9"	0.0	-85.0"
TRAJ: 600 yds. zero	-1.5"	60.2"	101.3"	118.8"	109.6"	70.9"	0.0

7MM CALIBER (.284" Dia.) 162 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .514

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2911	2729	2555	2387	2225	2070
ENERGY (ft.-lbs.)	3456	3047	2678	2347	2049	1781	1541
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-9.9"	-22.5"	-41.2"	-66.9"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.0"	-17.3"	-34.7"	-59.1"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.0"	0.0	-9.3"	-24.7"	-47.2"
TRAJ: 400 yds. zero	-1.5"	5.6"	8.6"	7.0"	0.0	-13.1"	-33.2"
TRAJ: 500 yds. zero	-1.5"	8.2"	13.9"	14.8"	10.5"	0.0	-17.5"
TRAJ: 600 yds. zero	-1.5"	11.2"	19.7"	23.6"	22.1"	14.6"	0.0
VELOCITY (fps)	3000	2815	2637	2466	2302	2144	1992
ENERGY (ft.-lbs.)	3237	2850	2501	2188	1906	1653	1427
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-10.8"	-24.4"	-44.6"	-72.3"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.4"	-18.6"	-37.3"	-63.7"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.3"	0.0	-10.0"	-26.6"	-50.8"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.3"	7.5"	0.0	-14.1"	-35.7"
TRAJ: 500 yds. zero	-1.5"	8.9"	14.9"	16.0"	11.3"	0.0	-18.8"
TRAJ: 600 yds. zero	-1.5"	12.1"	21.2"	25.4"	23.8"	15.7"	0.0
VELOCITY (fps)	2900	2719	2545	2378	2216	2061	1913
ENERGY (ft.-lbs.)	3025	2659	2329	2033	1767	1528	1316
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-11.8"	-26.5"	-48.3"	-78.3"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.0"	-20.1"	-40.3"	-68.7"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.6"	0.0	-10.8"	-28.7"	-54.8"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.1"	8.1"	0.0	-15.2"	-38.6"
TRAJ: 500 yds. zero	-1.5"	9.7"	16.1"	17.2"	12.2"	0.0	-20.3"
TRAJ: 600 yds. zero	-1.5"	13.1"	22.9"	27.4"	25.7"	17.0"	0.0
VELOCITY (fps)	2800	2623	2453	2289	2131	1979	1835
ENERGY (ft.-lbs.)	2820	2474	2163	1884	1633	1409	1211
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-12.9"	-28.9"	-52.5"	-85.1"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.6"	-21.8"	-43.6"	-74.4"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.0"	0.0	-11.7"	-31.0"	-59.3"
TRAJ: 400 yds. zero	-1.5"	7.2"	10.9"	8.8"	0.0	-16.4"	-41.7"
TRAJ: 500 yds. zero	-1.5"	10.5"	17.5"	18.6"	13.1"	0.0	-22.0"
TRAJ: 600 yds. zero	-1.5"	14.2"	24.8"	29.6"	27.8"	18.4"	0.0
VELOCITY (fps)	2700	2527	2360	2200	2045	1898	1757
ENERGY (ft.-lbs.)	2622	2296	2003	1740	1505	1295	1110
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.1"	-31.5"	-57.3"	-92.6"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.2"	-23.6"	-47.4"	-80.8"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.5"	0.0	-12.7"	-33.7"	-64.3"
TRAJ: 400 yds. zero	-1.5"	7.9"	11.8"	9.5"	0.0	-17.8"	-45.3"
TRAJ: 500 yds. zero	-1.5"	11.5"	19.0"	20.2"	14.3"	0.0	-23.9"
TRAJ: 600 yds. zero	-1.5"	15.4"	26.9"	32.2"	30.2"	19.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2600	2431	2267	2111	1960	1816	1680
ENERGY (ft.-lbs.)	2431	2125	1849	1602	1382	1186	1015
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-15.6"	-34.5"	-62.6"	-101.2"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.0"	-25.7"	-51.6"	-88.0"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.0"	0.0	-13.8"	-36.6"	-70.1"
TRAJ: 400 yds. zero	-1.5"	8.6"	12.9"	10.3"	0.0	-19.4"	-49.4"
TRAJ: 500 yds. zero	-1.5"	12.5"	20.6"	22.0"	15.5"	0.0	-26.1"
TRAJ: 600 yds. zero	-1.5"	16.9"	29.3"	35.0"	32.9"	21.7"	0.0
VELOCITY (fps)	2500	2334	2175	2022	1875	1736	1604
ENERGY (ft.-lbs.)	2248	1960	1701	1470	1264	1083	926
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-17.1"	-37.9"	-68.6"	-110.8"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-9.8"	-28.1"	-56.4"	-96.2"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.5"	0.0	-15.1"	-40.0"	-76.5"
TRAJ: 400 yds. zero	-1.5"	9.5"	14.1"	11.3"	0.0	-21.2"	-54.0"
TRAJ: 500 yds. zero	-1.5"	13.7"	22.5"	24.0"	17.0"	0.0	-28.5"
TRAJ: 600 yds. zero	-1.5"	18.5"	32.1"	38.3"	36.0"	23.8"	0.0
VELOCITY (fps)	2400	2238	2082	1933	1791	1656	1530
ENERGY (ft.-lbs.)	2072	1801	1559	1344	1153	986	842
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-18.9"	-41.7"	-75.4"	-121.8"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-10.8"	-30.8"	-61.8"	-105.4"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.2"	0.0	-16.5"	-43.8"	-83.9"
TRAJ: 400 yds. zero	-1.5"	10.4"	15.4"	12.4"	0.0	-23.2"	-59.2"
TRAJ: 500 yds. zero	-1.5"	15.1"	24.7"	26.3"	18.6"	0.0	-31.3"
TRAJ: 600 yds. zero	-1.5"	20.3"	35.1"	42.0"	39.4"	26.1"	0.0
VELOCITY (fps)	2300	2142	1990	1845	1707	1578	1458
ENERGY (ft.-lbs.)	1903	1650	1424	1224	1048	895	764
TRAJ: 100 yds. zero	-1.5"	0.0	-6.1"	-21.0"	-46.1"	-83.1"	-134.2"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-11.8"	-33.9"	-67.9"	-116.0"
TRAJ: 300 yds. zero	-1.5"	7.0"	7.9"	0.0	-18.1"	-48.2"	-92.3"
TRAJ: 400 yds. zero	-1.5"	11.5"	17.0"	13.6"	0.0	-25.5"	-65.1"
TRAJ: 500 yds. zero	-1.5"	16.6"	27.2"	28.9"	20.4"	0.0	-34.5"
TRAJ: 600 yds. zero	-1.5"	22.4"	38.7"	46.1"	43.4"	28.7"	0.0
VELOCITY (fps)	2200	2046	1898	1757	1625	1501	1388
ENERGY (ft.-lbs.)	1741	1505	1296	1111	949	810	693
TRAJ: 100 yds. zero	-1.5"	0.0	-6.8"	-23.3"	-51.1"	-92.0"	-148.4"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-13.1"	-37.4"	-75.0"	-128.0"
TRAJ: 300 yds. zero	-1.5"	7.8"	8.7"	0.0	-20.0"	-53.2"	-101.8"
TRAJ: 400 yds. zero	-1.5"	12.8"	18.7"	15.0"	0.0	-28.2"	-71.9"
TRAJ: 500 yds. zero	-1.5"	18.4"	30.0"	31.9"	22.6"	0.0	-38.0"
TRAJ: 600 yds. zero	-1.5"	24.7"	42.7"	50.9"	47.9"	31.7"	0.0
VELOCITY (fps)	2100	1950	1807	1671	1544	1427	1321
ENERGY (ft.-lbs.)	1586	1367	1174	1004	858	732	628
TRAJ: 100 yds. zero	-1.5"	0.0	-7.7"	-26.0"	-56.8"	-102.2"	-164.7"
TRAJ: 200 yds. zero	-1.5"	3.8"	0.0	-14.5"	-41.5"	-83.0"	-141.8"
TRAJ: 300 yds. zero	-1.5"	8.7"	9.7"	0.0	-22.1"	-58.9"	-112.8"
TRAJ: 400 yds. zero	-1.5"	14.2"	20.7"	16.6"	0.0	-31.2"	-79.6"
TRAJ: 500 yds. zero	-1.5"	20.4"	33.2"	35.3"	25.0"	0.0	-42.1"
TRAJ: 600 yds. zero	-1.5"	27.5"	47.3"	56.4"	53.0"	35.1"	0.0
VELOCITY (fps)	2000	1854	1716	1586	1465	1355	1258
ENERGY (ft.-lbs.)	1439	1237	1059	905	772	661	569
TRAJ: 100 yds. zero	-1.5"	0.0	-8.6"	-29.1"	-63.4"	-113.9"	-183.4"
TRAJ: 200 yds. zero	-1.5"	4.3"	0.0	-16.1"	-46.1"	-92.3"	-157.5"
TRAJ: 300 yds. zero	-1.5"	9.7"	10.8"	0.0	-24.6"	-65.4"	-125.2"
TRAJ: 400 yds. zero	-1.5"	15.8"	23.1"	18.5"	0.0	-34.7"	-88.3"
TRAJ: 500 yds. zero	-1.5"	22.8"	36.9"	39.3"	27.7"	0.0	-46.7"
TRAJ: 600 yds. zero	-1.5"	30.6"	52.5"	62.6"	58.9"	38.9"	0.0
VELOCITY (fps)	1900	1759	1627	1503	1389	1287	1199
ENERGY (ft.-lbs.)	1298	1113	952	812	694	596	517
TRAJ: 100 yds. zero	-1.5"	0.0	-9.7"	-32.7"	-71.0"	-127.4"	-204.8"
TRAJ: 200 yds. zero	-1.5"	4.9"	0.0	-18.0"	-51.5"	-103.0"	-175.5"
TRAJ: 300 yds. zero	-1.5"	10.9"	12.0"	0.0	-27.4"	-72.9"	-139.5"
TRAJ: 400 yds. zero	-1.5"	17.7"	25.7"	20.6"	0.0	-38.6"	-98.3"
TRAJ: 500 yds. zero	-1.5"	25.5"	41.2"	43.8"	30.9"	0.0	-51.9"
TRAJ: 600 yds. zero	-1.5"	34.1"	58.5"	69.7"	65.5"	43.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1800	1665	1538	1421	1316	1224	1146
ENERGY (ft.-lbs.)	1165	997	851	727	623	539	472
TRAJ: 100 yds. zero	-1.5"	0.0	-11.1"	-36.8"	-79.8"	-143.0"	-229.3"
TRAJ: 200 yds. zero	-1.5"	5.5"	0.0	-20.2"	-57.7"	-115.3"	-196.2"
TRAJ: 300 yds. zero	-1.5"	12.3"	13.5"	0.0	-30.7"	-81.6"	-155.7"
TRAJ: 400 yds. zero	-1.5"	20.0"	28.9"	23.0"	0.0	-43.2"	-109.6"
TRAJ: 500 yds. zero	-1.5"	28.6"	46.1"	48.9"	34.5"	0.0	-57.8"
TRAJ: 600 yds. zero	-1.5"	38.2"	65.4"	77.8"	73.1"	48.2"	0.0
VELOCITY (fps)	1700	1571	1452	1343	1247	1165	1099
ENERGY (ft.-lbs.)	1039	888	758	649	559	488	434
TRAJ: 100 yds. zero	-1.5"	0.0	-12.6"	-41.7"	-90.2"	-161.0"	-257.4"
TRAJ: 200 yds. zero	-1.5"	6.3"	0.0	-22.8"	-65.0"	-129.5"	-219.5"
TRAJ: 300 yds. zero	-1.5"	13.9"	15.2"	0.0	-34.5"	-91.4"	-173.9"
TRAJ: 400 yds. zero	-1.5"	22.5"	32.5"	25.9"	0.0	-48.3"	-122.1"
TRAJ: 500 yds. zero	-1.5"	32.2"	51.8"	54.8"	38.6"	0.0	-64.2"
TRAJ: 600 yds. zero	-1.5"	42.9"	73.2"	87.0"	81.4"	53.5"	0.0
VELOCITY (fps)	1600	1478	1367	1268	1183	1113	1057
ENERGY (ft.-lbs.)	921	786	672	578	503	445	401
TRAJ: 100 yds. zero	-1.5"	0.0	-14.4"	-47.5"	-102.2"	-181.7"	-289.1"
TRAJ: 200 yds. zero	-1.5"	7.2"	0.0	-25.8"	-73.3"	-145.6"	-245.9"
TRAJ: 300 yds. zero	-1.5"	15.8"	17.2"	0.0	-38.9"	-102.6"	-194.2"
TRAJ: 400 yds. zero	-1.5"	25.5"	36.7"	29.1"	0.0	-54.0"	-135.9"
TRAJ: 500 yds. zero	-1.5"	36.3"	58.3"	61.5"	43.2"	0.0	-71.1"
TRAJ: 600 yds. zero	-1.5"	48.2"	82.0"	97.1"	90.6"	59.2"	0.0
VELOCITY (fps)	1500	1387	1285	1197	1125	1066	1019
ENERGY (ft.-lbs.)	809	692	594	516	455	409	373
TRAJ: 100 yds. zero	-1.5"	0.0	-16.6"	-54.2"	-116.1"	-205.4"	-324.9"
TRAJ: 200 yds. zero	-1.5"	8.3"	0.0	-29.4"	-82.9"	-163.9"	-275.1"
TRAJ: 300 yds. zero	-1.5"	18.1"	19.6"	0.0	-43.8"	-115.0"	-216.4"
TRAJ: 400 yds. zero	-1.5"	29.0"	41.5"	32.9"	0.0	-60.2"	-150.7"
TRAJ: 500 yds. zero	-1.5"	41.1"	65.6"	69.0"	48.2"	0.0	-78.4"
TRAJ: 600 yds. zero	-1.5"	54.1"	91.7"	108.2"	100.4"	65.3"	0.0
VELOCITY (fps)	1400	1297	1207	1133	1073	1024	984
ENERGY (ft.-lbs.)	705	605	524	461	414	377	348
TRAJ: 100 yds. zero	-1.5"	0.0	-19.2"	-62.2"	-132.2"	-232.2"	-364.9"
TRAJ: 200 yds. zero	-1.5"	9.6"	0.0	-33.4"	-93.9"	-184.3"	-307.3"
TRAJ: 300 yds. zero	-1.5"	20.7"	22.3"	0.0	-49.3"	-128.6"	-240.5"
TRAJ: 400 yds. zero	-1.5"	33.1"	46.9"	37.0"	0.0	-67.0"	-166.5"
TRAJ: 500 yds. zero	-1.5"	46.4"	73.7"	77.2"	53.6"	0.0	-86.2"
TRAJ: 600 yds. zero	-1.5"	60.8"	102.4"	120.2"	111.0"	71.8"	0.0

7MM CALIBER (.284" Dia.) 175 GRAIN SPIRE POINT
SECTIONAL DENSITY: .310 BALLISTIC COEFFICIENT: .462

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2794	2598	2410	2230	2057	1893
ENERGY (ft.-lbs.)	3497	3034	2622	2257	1932	1644	1392
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.1"	-25.2"	-46.3"	-75.6"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.6"	-19.3"	-38.9"	-66.7"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.4"	0.0	-10.4"	-27.8"	-53.5"
TRAJ: 400 yds. zero	-1.5"	6.3"	9.6"	7.8"	0.0	-14.8"	-37.9"
TRAJ: 500 yds. zero	-1.5"	9.3"	15.6"	16.7"	11.9"	0.0	-20.1"
TRAJ: 600 yds. zero	-1.5"	12.6"	22.2"	26.7"	25.2"	16.7"	0.0
VELOCITY (fps)	2900	2699	2507	2322	2146	1977	1817
ENERGY (ft.-lbs.)	3267	2830	2441	2096	1789	1519	1282
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.1"	-27.4"	-50.2"	-81.9"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.2"	-20.8"	-42.0"	-72.1"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.2"	-30.0"	-57.8"
TRAJ: 400 yds. zero	-1.5"	6.8"	10.4"	8.4"	0.0	-16.0"	-40.9"
TRAJ: 500 yds. zero	-1.5"	10.0"	16.8"	18.0"	12.8"	0.0	-21.7"
TRAJ: 600 yds. zero	-1.5"	13.7"	24.0"	28.9"	27.3"	18.1"	0.0
VELOCITY (fps)	2800	2603	2415	2235	2062	1897	1741
ENERGY (ft.-lbs.)	3046	2633	2266	1940	1652	1398	1178
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.2"	-29.8"	-54.6"	-89.0"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.8"	-22.5"	-45.5"	-78.1"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.2"	0.0	-12.2"	-32.5"	-62.6"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.3"	9.1"	0.0	-17.3"	-44.3"
TRAJ: 500 yds. zero	-1.5"	10.9"	18.2"	19.5"	13.9"	0.0	-23.5"
TRAJ: 600 yds. zero	-1.5"	14.8"	26.0"	31.3"	29.5"	19.6"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2508	2323	2147	1978	1818	1667
ENERGY (ft.-lbs.)	2832	2443	2097	1791	1520	1284	1079
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.5"	-32.6"	-59.5"	-97.0"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.5"	-24.5"	-49.4"	-84.9"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.6"	0.0	-13.2"	-35.3"	-68.0"
TRAJ: 400 yds. zero	-1.5"	8.1"	12.2"	9.9"	0.0	-18.8"	-48.2"
TRAJ: 500 yds. zero	-1.5"	11.9"	19.8"	21.2"	15.0"	0.0	-25.6"
TRAJ: 600 yds. zero	-1.5"	16.2"	28.3"	34.0"	32.1"	21.3"	0.0
VELOCITY (fps)	2600	2412	2232	2059	1894	1739	1593
ENERGY (ft.-lbs.)	2626	2260	1935	1647	1394	1175	986
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.0"	-35.7"	-65.1"	-106.0"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.2"	-26.7"	-53.8"	-92.6"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.2"	0.0	-14.4"	-38.5"	-74.1"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.3"	10.8"	0.0	-20.5"	-52.5"
TRAJ: 500 yds. zero	-1.5"	13.0"	21.5"	23.1"	16.4"	0.0	-27.9"
TRAJ: 600 yds. zero	-1.5"	17.7"	30.9"	37.0"	35.0"	23.3"	0.0
VELOCITY (fps)	2500	2316	2140	1971	1811	1661	1521
ENERGY (ft.-lbs.)	2428	2084	1779	1510	1275	1071	899
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-17.6"	-39.2"	-71.3"	-116.2"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.1"	-29.2"	-58.9"	-101.2"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.7"	0.0	-15.7"	-42.0"	-81.0"
TRAJ: 400 yds. zero	-1.5"	9.8"	14.6"	11.8"	0.0	-22.4"	-57.5"
TRAJ: 500 yds. zero	-1.5"	14.3"	23.5"	25.2"	17.9"	0.0	-30.6"
TRAJ: 600 yds. zero	-1.5"	19.4"	33.7"	40.5"	38.3"	25.5"	0.0
VELOCITY (fps)	2400	2220	2048	1884	1729	1584	1450
ENERGY (ft.-lbs.)	2238	1915	1630	1379	1161	975	817
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-19.4"	-43.1"	-78.5"	-127.7"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.1"	-32.0"	-64.6"	-111.0"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.4"	0.0	-17.2"	-46.1"	-88.9"
TRAJ: 400 yds. zero	-1.5"	10.8"	16.0"	12.9"	0.0	-24.6"	-63.0"
TRAJ: 500 yds. zero	-1.5"	15.7"	25.8"	27.6"	19.7"	0.0	-33.6"
TRAJ: 600 yds. zero	-1.5"	21.3"	37.0"	44.4"	42.0"	28.0"	0.0
VELOCITY (fps)	2300	2124	1957	1797	1648	1509	1383
ENERGY (ft.-lbs.)	2055	1753	1487	1255	1055	885	743
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-21.5"	-47.6"	-86.6"	-140.9"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.2"	-35.2"	-71.0"	-122.2"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.1"	0.0	-18.9"	-50.7"	-97.8"
TRAJ: 400 yds. zero	-1.5"	11.9"	17.6"	14.2"	0.0	-27.0"	-69.4"
TRAJ: 500 yds. zero	-1.5"	17.3"	28.4"	30.4"	21.6"	0.0	-37.0"
TRAJ: 600 yds. zero	-1.5"	23.5"	40.7"	48.9"	46.3"	30.8"	0.0
VELOCITY (fps)	2200	2029	1866	1712	1568	1436	1318
ENERGY (ft.-lbs.)	1880	1599	1352	1138	955	801	675
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-23.9"	-52.8"	-95.8"	-155.8"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.5"	-38.9"	-78.4"	-134.9"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.0"	0.0	-20.9"	-56.0"	-108.0"
TRAJ: 400 yds. zero	-1.5"	13.2"	19.4"	15.7"	0.0	-29.9"	-76.6"
TRAJ: 500 yds. zero	-1.5"	19.2"	31.4"	33.6"	23.9"	0.0	-40.8"
TRAJ: 600 yds. zero	-1.5"	26.0"	45.0"	54.0"	51.1"	34.0"	0.0
VELOCITY (fps)	2100	1933	1776	1627	1490	1366	1257
ENERGY (ft.-lbs.)	1713	1452	1225	1029	863	725	613
TRAJ: 100 yds. zero	-1.5"	0.0	-7.8"	-26.7"	-58.7"	-106.5"	-172.9"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-15.0"	-43.1"	-86.9"	-149.5"
TRAJ: 300 yds. zero	-1.5"	8.9"	10.0"	0.0	-23.1"	-62.0"	-119.5"
TRAJ: 400 yds. zero	-1.5"	14.7"	21.5"	17.4"	0.0	-33.1"	-84.8"
TRAJ: 500 yds. zero	-1.5"	21.3"	34.8"	37.2"	26.4"	0.0	-45.2"
TRAJ: 600 yds. zero	-1.5"	28.8"	49.8"	59.8"	56.6"	37.6"	0.0
VELOCITY (fps)	2000	1838	1686	1544	1414	1299	1200
ENERGY (ft.-lbs.)	1554	1313	1105	926	777	655	559
TRAJ: 100 yds. zero	-1.5"	0.0	-8.8"	-29.9"	-65.5"	-118.6"	-192.4"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-16.7"	-47.9"	-96.6"	-166.0"
TRAJ: 300 yds. zero	-1.5"	10.0"	11.1"	0.0	-25.7"	-68.9"	-132.7"
TRAJ: 400 yds. zero	-1.5"	16.4"	24.0"	19.3"	0.0	-36.7"	-94.1"
TRAJ: 500 yds. zero	-1.5"	23.7"	38.7"	41.3"	29.4"	0.0	-50.1"
TRAJ: 600 yds. zero	-1.5"	32.1"	55.3"	66.4"	62.7"	41.7"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1900	1744	1598	1463	1342	1236	1148
ENERGY (ft.-lbs.)	1403	1182	992	832	699	594	512
TRAJ: 100 yds. zero	-1.5"	0.0	-10.0"	-33.6"	-73.4"	-132.7"	-214.7"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-18.6"	-53.5"	-107.8"	-184.9"
TRAJ: 300 yds. zero	-1.5"	11.2"	12.4"	0.0	-28.7"	-76.7"	-147.6"
TRAJ: 400 yds. zero	-1.5"	18.4"	26.8"	21.5"	0.0	-40.9"	-104.6"
TRAJ: 500 yds. zero	-1.5"	26.5"	43.1"	46.0"	32.7"	0.0	-55.5"
TRAJ: 600 yds. zero	-1.5"	35.8"	61.6"	73.8"	69.7"	46.3"	0.0
VELOCITY (fps)	1800	1650	1511	1385	1273	1178	1102
ENERGY (ft.-lbs.)	1259	1058	887	745	629	539	472
TRAJ: 100 yds. zero	-1.5"	0.0	-11.3"	-37.8"	-82.6"	-148.8"	-240.1"
TRAJ: 200 yds. zero	-1.5"	5.6"	0.0	-20.9"	-60.0"	-120.6"	-206.2"
TRAJ: 300 yds. zero	-1.5"	12.6"	13.9"	0.0	-32.1"	-85.7"	-164.4"
TRAJ: 400 yds. zero	-1.5"	20.6"	30.0"	24.1"	0.0	-45.6"	-116.2"
TRAJ: 500 yds. zero	-1.5"	29.8"	48.2"	51.4"	36.5"	0.0	-61.5"
TRAJ: 600 yds. zero	-1.5"	40.0"	68.7"	82.2"	77.5"	51.3"	0.0
VELOCITY (fps)	1700	1557	1426	1309	1208	1126	1061
ENERGY (ft.-lbs.)	1123	942	790	666	567	493	438
TRAJ: 100 yds. zero	-1.5"	0.0	-12.9"	-42.8"	-93.2"	-167.3"	-268.7"
TRAJ: 200 yds. zero	-1.5"	6.4"	0.0	-23.5"	-67.4"	-135.1"	-230.1"
TRAJ: 300 yds. zero	-1.5"	14.3"	15.7"	0.0	-36.0"	-95.9"	-183.0"
TRAJ: 400 yds. zero	-1.5"	23.3"	33.7"	27.0"	0.0	-50.9"	-129.0"
TRAJ: 500 yds. zero	-1.5"	33.5"	54.1"	57.5"	40.7"	0.0	-67.9"
TRAJ: 600 yds. zero	-1.5"	44.8"	76.7"	91.5"	86.0"	56.6"	0.0
VELOCITY (fps)	1600	1465	1344	1238	1149	1080	1025
ENERGY (ft.-lbs.)	995	834	701	595	513	453	408
TRAJ: 100 yds. zero	-1.5"	0.0	-14.7"	-48.7"	-105.4"	-188.4"	-300.9"
TRAJ: 200 yds. zero	-1.5"	7.4"	0.0	-26.6"	-76.0"	-151.6"	-256.7"
TRAJ: 300 yds. zero	-1.5"	16.2"	17.8"	0.0	-40.5"	-107.2"	-203.4"
TRAJ: 400 yds. zero	-1.5"	26.4"	38.0"	30.4"	0.0	-56.6"	-142.7"
TRAJ: 500 yds. zero	-1.5"	37.7"	60.6"	64.3"	45.3"	0.0	-74.8"
TRAJ: 600 yds. zero	-1.5"	50.1"	85.6"	101.7"	95.1"	62.3"	0.0
VELOCITY (fps)	1500	1375	1264	1171	1097	1038	991
ENERGY (ft.-lbs.)	874	734	621	533	467	419	382
TRAJ: 100 yds. zero	-1.5"	0.0	-16.9"	-55.6"	-119.6"	-212.3"	-336.6"
TRAJ: 200 yds. zero	-1.5"	8.5"	0.0	-30.2"	-85.8"	-170.0"	-285.9"
TRAJ: 300 yds. zero	-1.5"	18.5"	20.1"	0.0	-45.5"	-119.6"	-225.5"
TRAJ: 400 yds. zero	-1.5"	29.9"	42.9"	34.1"	0.0	-62.8"	-157.2"
TRAJ: 500 yds. zero	-1.5"	42.5"	68.0"	71.8"	50.2"	0.0	-81.9"
TRAJ: 600 yds. zero	-1.5"	56.1"	95.3"	112.7"	104.8"	68.3"	0.0
VELOCITY (fps)	1400	1286	1189	1111	1049	1000	960
ENERGY (ft.-lbs.)	761	643	550	479	428	389	358
TRAJ: 100 yds. zero	-1.5"	0.0	-19.5"	-63.6"	-135.7"	-239.0"	-376.3"
TRAJ: 200 yds. zero	-1.5"	9.8"	0.0	-34.3"	-96.7"	-190.2"	-317.8"
TRAJ: 300 yds. zero	-1.5"	21.2"	22.9"	0.0	-50.9"	-133.0"	-249.2"
TRAJ: 400 yds. zero	-1.5"	33.9"	48.3"	38.2"	0.0	-69.4"	-172.8"
TRAJ: 500 yds. zero	-1.5"	47.8"	76.1"	79.8"	55.5"	0.0	-89.5"
TRAJ: 600 yds. zero	-1.5"	62.7"	105.9"	124.6"	115.2"	74.6"	0.0
VELOCITY (fps)	1300	1201	1120	1057	1006	965	929
ENERGY (ft.-lbs.)	657	560	487	434	393	361	335
TRAJ: 100 yds. zero	-1.5"	0.0	-22.6"	-72.8"	-154.0"	-269.1"	-420.6"
TRAJ: 200 yds. zero	-1.5"	11.3"	0.0	-39.0"	-108.8"	-212.6"	-352.9"
TRAJ: 300 yds. zero	-1.5"	24.3"	26.0"	0.0	-56.9"	-147.7"	-275.0"
TRAJ: 400 yds. zero	-1.5"	38.5"	54.4"	42.7"	0.0	-76.5"	-189.6"
TRAJ: 500 yds. zero	-1.5"	53.8"	85.0"	88.6"	61.2"	0.0	-97.8"
TRAJ: 600 yds. zero	-1.5"	70.1"	117.6"	137.5"	126.4"	81.5"	0.0

7MM CALIBER (.284" Dia.) 175 GRAIN ROUND NOSE
SECTIONAL DENSITY: .310 BALLISTIC COEFFICIENT: .285

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2671	2366	2080	1816	1577	1368
ENERGY (ft.-lbs.)	3497	2773	2174	1681	1282	966	727
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-13.0"	-30.8"	-59.1"	-101.6"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.9"	-24.0"	-50.6"	-91.4"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.3"	0.0	-13.4"	-37.4"	-75.5"
TRAJ: 400 yds. zero	-1.5"	7.7"	12.0"	10.0"	0.0	-20.7"	-55.4"
TRAJ: 500 yds. zero	-1.5"	11.8"	20.2"	22.4"	16.5"	0.0	-30.7"
TRAJ: 600 yds. zero	-1.5"	16.9"	30.5"	37.8"	37.0"	25.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2579	2279	2000	1742	1511	1314
ENERGY (ft.-lbs.)	3267	2583	2018	1554	1180	888	670
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.2"	-33.5"	-64.3"	-110.4"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.6"	-26.0"	-54.9"	-99.2"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.7"	0.0	-14.5"	-40.5"	-82.0"
TRAJ: 400 yds. zero	-1.5"	8.4"	13.0"	10.9"	0.0	-22.4"	-60.2"
TRAJ: 500 yds. zero	-1.5"	12.9"	22.0"	24.3"	17.9"	0.0	-33.3"
TRAJ: 600 yds. zero	-1.5"	18.4"	33.1"	41.0"	40.2"	27.8"	0.0
VELOCITY (fps)	2800	2486	2192	1919	1669	1448	1262
ENERGY (ft.-lbs.)	3046	2400	1867	1431	1083	814	618
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.6"	-36.5"	-70.1"	-120.4"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.4"	-28.2"	-59.7"	-107.9"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.2"	0.0	-15.7"	-44.1"	-89.2"
TRAJ: 400 yds. zero	-1.5"	9.1"	14.1"	11.8"	0.0	-24.4"	-65.6"
TRAJ: 500 yds. zero	-1.5"	14.0"	23.9"	26.4"	19.5"	0.0	-36.3"
TRAJ: 600 yds. zero	-1.5"	20.1"	36.0"	44.6"	43.7"	30.3"	0.0
VELOCITY (fps)	2700	2392	2105	1839	1597	1386	1213
ENERGY (ft.-lbs.)	2832	2223	1722	1314	991	746	571
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-17.1"	-40.0"	-76.6"	-131.5"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.2"	-30.8"	-65.1"	-117.7"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.8"	0.0	-17.2"	-48.1"	-97.3"
TRAJ: 400 yds. zero	-1.5"	10.0"	15.4"	12.9"	0.0	-26.6"	-71.6"
TRAJ: 500 yds. zero	-1.5"	15.3"	26.0"	28.8"	21.3"	0.0	-39.6"
TRAJ: 600 yds. zero	-1.5"	21.9"	39.2"	48.7"	47.7"	33.0"	0.0
VELOCITY (fps)	2600	2299	2018	1759	1526	1326	1167
ENERGY (ft.-lbs.)	2626	2053	1583	1203	905	683	530
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-18.8"	-43.8"	-83.9"	-144.0"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.1"	-33.6"	-71.2"	-128.7"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.4"	0.0	-18.8"	-52.6"	-106.4"
TRAJ: 400 yds. zero	-1.5"	11.0"	16.8"	14.1"	0.0	-29.1"	-78.3"
TRAJ: 500 yds. zero	-1.5"	16.8"	28.5"	31.5"	23.3"	0.0	-43.3"
TRAJ: 600 yds. zero	-1.5"	24.0"	42.9"	53.2"	52.2"	36.1"	0.0
VELOCITY (fps)	2500	2206	1932	1681	1457	1269	1126
ENERGY (ft.-lbs.)	2428	1890	1450	1097	825	626	493
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-20.8"	-48.2"	-92.2"	-158.0"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-12.2"	-36.9"	-78.0"	-141.0"
TRAJ: 300 yds. zero	-1.5"	6.9"	8.1"	0.0	-20.6"	-57.6"	-116.5"
TRAJ: 400 yds. zero	-1.5"	12.1"	18.4"	15.4"	0.0	-31.9"	-85.7"
TRAJ: 500 yds. zero	-1.5"	18.4"	31.2"	34.6"	25.6"	0.0	-47.3"
TRAJ: 600 yds. zero	-1.5"	26.3"	47.0"	58.3"	57.1"	39.5"	0.0
VELOCITY (fps)	2400	2112	1846	1603	1391	1217	1090
ENERGY (ft.-lbs.)	2238	1734	1324	998	751	575	461
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-23.0"	-53.2"	-101.6"	-173.6"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.4"	-40.5"	-85.8"	-154.6"
TRAJ: 300 yds. zero	-1.5"	7.7"	9.0"	0.0	-22.6"	-63.4"	-127.7"
TRAJ: 400 yds. zero	-1.5"	13.3"	20.3"	17.0"	0.0	-35.1"	-93.8"
TRAJ: 500 yds. zero	-1.5"	20.3"	34.3"	38.0"	28.1"	0.0	-51.7"
TRAJ: 600 yds. zero	-1.5"	28.9"	51.5"	63.9"	62.5"	43.1"	0.0
VELOCITY (fps)	2300	2019	1760	1527	1327	1168	1057
ENERGY (ft.-lbs.)	2055	1584	1204	906	684	530	434
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-25.5"	-58.9"	-112.2"	-191.0"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-14.8"	-44.7"	-94.5"	-169.8"
TRAJ: 300 yds. zero	-1.5"	8.5"	9.9"	0.0	-24.9"	-69.8"	-140.1"
TRAJ: 400 yds. zero	-1.5"	14.7"	22.4"	18.7"	0.0	-38.6"	-102.7"
TRAJ: 500 yds. zero	-1.5"	22.4"	37.8"	41.9"	30.9"	0.0	-56.4"
TRAJ: 600 yds. zero	-1.5"	31.8"	56.6"	70.0"	68.5"	47.0"	0.0
VELOCITY (fps)	2200	1927	1676	1453	1266	1124	1027
ENERGY (ft.-lbs.)	1880	1442	1091	821	623	491	410
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-28.3"	-65.3"	-124.1"	-210.2"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-16.4"	-49.5"	-104.3"	-186.4"
TRAJ: 300 yds. zero	-1.5"	9.4"	11.0"	0.0	-27.5"	-76.9"	-153.5"
TRAJ: 400 yds. zero	-1.5"	16.3"	24.7"	20.7"	0.0	-42.5"	-112.2"
TRAJ: 500 yds. zero	-1.5"	24.8"	41.7"	46.2"	34.0"	0.0	-61.2"
TRAJ: 600 yds. zero	-1.5"	35.0"	62.1"	76.8"	74.8"	51.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2100	1834	1593	1382	1210	1085	1000
ENERGY (ft.-lbs.)	1713	1307	986	742	569	457	388
TRAJ: 100 yds. zero	-1.5"	0.0	-8.9"	-31.6"	-72.6"	-137.5"	-231.2"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-18.2"	-54.8"	-115.2"	-204.5"
TRAJ: 300 yds. zero	-1.5"	10.5"	12.2"	0.0	-30.5"	-84.8"	-168.0"
TRAJ: 400 yds. zero	-1.5"	18.2"	27.4"	22.9"	0.0	-46.7"	-122.3"
TRAJ: 500 yds. zero	-1.5"	27.5"	46.1"	50.9"	37.4"	0.0	-66.2"
TRAJ: 600 yds. zero	-1.5"	38.5"	68.2"	84.0"	81.5"	55.2"	0.0
VELOCITY (fps)	2000	1743	1512	1314	1158	1050	975
ENERGY (ft.-lbs.)	1554	1180	888	671	521	428	369
TRAJ: 100 yds. zero	-1.5"	0.0	-10.0"	-35.4"	-81.0"	-152.4"	-254.3"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-20.3"	-60.9"	-127.3"	-224.2"
TRAJ: 300 yds. zero	-1.5"	11.8"	13.6"	0.0	-33.8"	-93.4"	-183.5"
TRAJ: 400 yds. zero	-1.5"	20.2"	30.5"	25.4"	0.0	-51.2"	-132.8"
TRAJ: 500 yds. zero	-1.5"	30.5"	50.9"	56.1"	40.9"	0.0	-71.4"
TRAJ: 600 yds. zero	-1.5"	42.4"	74.7"	91.8"	88.6"	59.5"	0.0
VELOCITY (fps)	1900	1652	1432	1249	1112	1019	951
ENERGY (ft.-lbs.)	1403	1060	797	607	481	403	352
TRAJ: 100 yds. zero	-1.5"	0.0	-11.3"	-39.7"	-90.4"	-168.9"	-279.4"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-22.7"	-67.8"	-140.6"	-245.4"
TRAJ: 300 yds. zero	-1.5"	13.2"	15.1"	0.0	-37.5"	-102.7"	-200.0"
TRAJ: 400 yds. zero	-1.5"	22.6"	33.9"	28.1"	0.0	-55.9"	-143.8"
TRAJ: 500 yds. zero	-1.5"	33.8"	56.2"	61.6"	44.7"	0.0	-76.7"
TRAJ: 600 yds. zero	-1.5"	46.6"	81.8"	100.0"	95.8"	63.9"	0.0
VELOCITY (fps)	1800	1562	1356	1190	1072	990	929
ENERGY (ft.-lbs.)	1259	948	714	550	446	381	335
TRAJ: 100 yds. zero	-1.5"	0.0	-12.8"	-44.7"	-101.0"	-187.0"	-306.7"
TRAJ: 200 yds. zero	-1.5"	6.4"	0.0	-25.4"	-75.4"	-155.0"	-268.2"
TRAJ: 300 yds. zero	-1.5"	14.9"	16.9"	0.0	-41.5"	-112.6"	-217.4"
TRAJ: 400 yds. zero	-1.5"	25.3"	37.7"	31.1"	0.0	-60.7"	-155.1"
TRAJ: 500 yds. zero	-1.5"	37.4"	62.0"	67.6"	48.6"	0.0	-82.2"
TRAJ: 600 yds. zero	-1.5"	51.1"	89.4"	108.7"	103.4"	68.5"	0.0
VELOCITY (fps)	1700	1474	1283	1136	1035	964	908
ENERGY (ft.-lbs.)	1123	844	640	502	416	361	320
TRAJ: 100 yds. zero	-1.5"	0.0	-14.6"	-50.4"	-112.9"	-206.9"	-336.4"
TRAJ: 200 yds. zero	-1.5"	7.3"	0.0	-28.5"	-83.7"	-170.5"	-292.6"
TRAJ: 300 yds. zero	-1.5"	16.8"	19.0"	0.0	-45.8"	-123.0"	-235.6"
TRAJ: 400 yds. zero	-1.5"	28.2"	41.9"	34.3"	0.0	-65.8"	-167.0"
TRAJ: 500 yds. zero	-1.5"	41.4"	68.2"	73.8"	52.6"	0.0	-88.0"
TRAJ: 600 yds. zero	-1.5"	56.1"	97.5"	117.8"	111.3"	73.4"	0.0
VELOCITY (fps)	1600	1388	1214	1088	1002	938	887
ENERGY (ft.-lbs.)	995	748	573	460	390	342	305
TRAJ: 100 yds. zero	-1.5"	0.0	-16.6"	-56.8"	-126.0"	-228.6"	-368.6"
TRAJ: 200 yds. zero	-1.5"	8.3"	0.0	-31.9"	-92.8"	-187.1"	-318.7"
TRAJ: 300 yds. zero	-1.5"	18.9"	21.3"	0.0	-50.3"	-133.9"	-254.9"
TRAJ: 400 yds. zero	-1.5"	31.5"	46.4"	37.7"	0.0	-71.1"	-179.6"
TRAJ: 500 yds. zero	-1.5"	45.7"	74.8"	80.3"	56.9"	0.0	-94.2"
TRAJ: 600 yds. zero	-1.5"	61.4"	106.2"	127.5"	119.7"	78.5"	0.0
VELOCITY (fps)	1500	1304	1151	1045	971	914	866
ENERGY (ft.-lbs.)	874	661	515	425	367	324	291
TRAJ: 100 yds. zero	-1.5"	0.0	-19.0"	-64.1"	-140.5"	-252.3"	-403.7"
TRAJ: 200 yds. zero	-1.5"	9.5"	0.0	-35.6"	-102.5"	-204.9"	-346.7"
TRAJ: 300 yds. zero	-1.5"	21.4"	23.8"	0.0	-55.0"	-145.5"	-275.5"
TRAJ: 400 yds. zero	-1.5"	35.1"	51.2"	41.2"	0.0	-76.7"	-193.0"
TRAJ: 500 yds. zero	-1.5"	50.5"	81.9"	87.3"	61.4"	0.0	-100.9"
TRAJ: 600 yds. zero	-1.5"	67.3"	115.6"	137.7"	128.7"	84.1"	0.0
VELOCITY (fps)	1400	1224	1095	1007	942	890	844
ENERGY (ft.-lbs.)	761	582	466	394	345	307	277
TRAJ: 100 yds. zero	-1.5"	0.0	-21.7"	-72.2"	-156.3"	-278.2"	-442.2"
TRAJ: 200 yds. zero	-1.5"	10.9"	0.0	-39.7"	-112.9"	-223.9"	-377.0"
TRAJ: 300 yds. zero	-1.5"	24.1"	26.4"	0.0	-60.0"	-157.8"	-297.7"
TRAJ: 400 yds. zero	-1.5"	39.1"	56.4"	45.0"	0.0	-82.8"	-207.7"
TRAJ: 500 yds. zero	-1.5"	55.6"	89.6"	94.7"	66.3"	0.0	-108.3"
TRAJ: 600 yds. zero	-1.5"	73.7"	125.7"	148.9"	138.5"	90.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1300	1148	1043	970	913	865	822
ENERGY (ft.-lbs.)	657	512	423	365	324	290	263
TRAJ: 100 yds. zero	-1.5"	0.0	-24.8"	-81.2"	-173.8"	-307.0"	-484.9"
TRAJ: 200 yds. zero	-1.5"	12.4"	0.0	-44.0"	-124.3"	-245.0"	-410.5"
TRAJ: 300 yds. zero	-1.5"	27.1"	29.3"	0.0	-65.6"	-171.7"	-322.5"
TRAJ: 400 yds. zero	-1.5"	43.5"	62.1"	49.2"	0.0	-89.7"	-224.1"
TRAJ: 500 yds. zero	-1.5"	61.4"	98.0"	103.0"	71.7"	0.0	-116.5"
TRAJ: 600 yds. zero	-1.5"	80.8"	136.8"	161.2"	149.4"	97.1"	0.0

30 CALIBER (.308" Dia.) 110 GRAIN SHORT JACKET
SECTIONAL DENSITY: .166 BALLISTIC COEFFICIENT: .152

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2700	2411	2140	1887	1655	1448	1272
ENERGY (ft.-lbs.)	1780	1419	1118	870	669	512	395
TRAJ: 50 yds. zero	-1.5"	0.0	-0.0"	-1.9"	-6.3"	-13.8"	-25.6"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.9"	-6.3"	-13.8"	-25.6"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.3"	0.0	-3.7"	-10.7"	-21.8"
TRAJ: 200 yds. zero	-1.5"	1.6"	3.1"	2.8"	0.0	-6.0"	-16.2"
TRAJ: 250 yds. zero	-1.5"	2.8"	5.5"	6.4"	4.8"	0.0	-9.0"
TRAJ: 300 yds. zero	-1.5"	4.3"	8.5"	10.9"	10.8"	7.5"	0.0
VELOCITY (fps)	2600	2317	2052	1806	1582	1385	1221
ENERGY (ft.-lbs.)	1651	1311	1029	797	611	468	364
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.3"	-7.2"	-15.6"	-28.6"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.1"	-7.0"	-15.3"	-28.2"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-4.1"	-11.7"	-23.9"
TRAJ: 200 yds. zero	-1.5"	1.8"	3.5"	3.1"	0.0	-6.6"	-17.7"
TRAJ: 250 yds. zero	-1.5"	3.1"	6.1"	7.0"	5.3"	0.0	-9.8"
TRAJ: 300 yds. zero	-1.5"	4.8"	9.4"	12.0"	11.8"	8.2"	0.0
VELOCITY (fps)	2500	2223	1965	1726	1510	1324	1174
ENERGY (ft.-lbs.)	1526	1207	943	727	557	428	337
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-2.8"	-8.3"	-17.6"	-31.9"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.4"	-7.7"	-16.9"	-31.1"
TRAJ: 150 yds. zero	-1.5"	0.9"	1.6"	0.0	-4.5"	-12.9"	-26.3"
TRAJ: 200 yds. zero	-1.5"	2.1"	3.9"	3.4"	0.0	-7.2"	-19.5"
TRAJ: 250 yds. zero	-1.5"	3.5"	6.8"	7.8"	5.8"	0.0	-10.8"
TRAJ: 300 yds. zero	-1.5"	5.3"	10.4"	13.2"	13.0"	9.0"	0.0
VELOCITY (fps)	2400	2130	1878	1647	1440	1266	1132
ENERGY (ft.-lbs.)	1407	1108	861	662	507	392	313
TRAJ: 50 yds. zero	-1.5"	0.0	-0.4"	-3.3"	-9.5"	-19.8"	-35.7"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.7"	-8.6"	-18.8"	-34.4"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.8"	0.0	-5.0"	-14.3"	-29.0"
TRAJ: 200 yds. zero	-1.5"	2.4"	4.3"	3.8"	0.0	-8.0"	-21.5"
TRAJ: 250 yds. zero	-1.5"	4.0"	7.5"	8.6"	6.4"	0.0	-11.9"
TRAJ: 300 yds. zero	-1.5"	5.9"	11.5"	14.5"	14.3"	9.9"	0.0
VELOCITY (fps)	2300	2036	1791	1569	1373	1212	1093
ENERGY (ft.-lbs.)	1292	1013	784	601	461	359	292
TRAJ: 50 yds. zero	-1.5"	0.0	-0.6"	-3.9"	-10.8"	-22.4"	-39.8"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-3.0"	-9.6"	-20.8"	-38.0"
TRAJ: 150 yds. zero	-1.5"	1.3"	2.0"	0.0	-5.6"	-15.8"	-32.0"
TRAJ: 200 yds. zero	-1.5"	2.7"	4.8"	4.2"	0.0	-8.8"	-23.6"
TRAJ: 250 yds. zero	-1.5"	4.5"	8.3"	9.5"	7.1"	0.0	-13.0"
TRAJ: 300 yds. zero	-1.5"	6.6"	12.7"	16.0"	15.7"	10.8"	0.0
VELOCITY (fps)	2200	1943	1706	1493	1309	1163	1059
ENERGY (ft.-lbs.)	1182	922	711	544	418	330	274
TRAJ: 50 yds. zero	-1.5"	0.0	-0.8"	-4.6"	-12.4"	-25.2"	-44.5"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.4"	-10.8"	-23.2"	-42.1"
TRAJ: 150 yds. zero	-1.5"	1.5"	2.3"	0.0	-6.2"	-17.5"	-35.2"
TRAJ: 200 yds. zero	-1.5"	3.1"	5.4"	4.7"	0.0	-9.8"	-25.9"
TRAJ: 250 yds. zero	-1.5"	5.0"	9.3"	10.5"	7.8"	0.0	-14.2"
TRAJ: 300 yds. zero	-1.5"	7.4"	14.0"	17.6"	17.3"	11.9"	0.0
VELOCITY (fps)	2100	1850	1622	1419	1249	1119	1028
ENERGY (ft.-lbs.)	1077	836	642	492	381	306	258
TRAJ: 50 yds. zero	-1.5"	0.0	-1.1"	-5.4"	-14.2"	-28.5"	-49.7"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.9"	-12.1"	-25.9"	-46.5"
TRAJ: 150 yds. zero	-1.5"	1.8"	2.6"	0.0	-6.9"	-19.4"	-38.8"
TRAJ: 200 yds. zero	-1.5"	3.5"	6.0"	5.2"	0.0	-10.8"	-28.4"
TRAJ: 250 yds. zero	-1.5"	5.7"	10.3"	11.7"	8.6"	0.0	-15.5"
TRAJ: 300 yds. zero	-1.5"	8.3"	15.5"	19.4"	19.0"	12.9"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2000	1758	1539	1348	1193	1080	1000
ENERGY (ft.-lbs.)	977	755	578	444	347	285	244
TRAJ: 50 yds. zero	-1.5"	0.0	-1.3"	-6.3"	-16.2"	-32.1"	-55.4"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.4"	-13.5"	-28.8"	-51.4"
TRAJ: 150 yds. zero	-1.5"	2.1"	2.9"	0.0	-7.7"	-21.5"	-42.7"
TRAJ: 200 yds. zero	-1.5"	4.0"	6.8"	5.8"	0.0	-11.9"	-31.1"
TRAJ: 250 yds. zero	-1.5"	6.4"	11.5"	12.9"	9.5"	0.0	-16.8"
TRAJ: 300 yds. zero	-1.5"	9.2"	17.1"	21.3"	20.7"	14.0"	0.0
VELOCITY (fps)	1900	1667	1458	1281	1142	1045	975
ENERGY (ft.-lbs.)	882	678	519	400	319	266	232
TRAJ: 50 yds. zero	-1.5"	0.0	-1.6"	-7.4"	-18.5"	-36.2"	-61.6"
TRAJ: 100 yds. zero	-1.5"	0.8"	0.0	-4.9"	-15.2"	-32.1"	-56.7"
TRAJ: 150 yds. zero	-1.5"	2.5"	3.3"	0.0	-8.6"	-23.9"	-46.8"
TRAJ: 200 yds. zero	-1.5"	4.6"	7.6"	6.5"	0.0	-13.1"	-33.9"
TRAJ: 250 yds. zero	-1.5"	7.2"	12.8"	14.3"	10.5"	0.0	-18.2"
TRAJ: 300 yds. zero	-1.5"	10.3"	18.9"	23.4"	22.6"	15.1"	0.0
VELOCITY (fps)	1800	1576	1380	1218	1097	1013	950
ENERGY (ft.-lbs.)	791	607	465	362	294	251	221
TRAJ: 50 yds. zero	-1.5"	0.0	-2.0"	-8.6"	-21.1"	-40.7"	-68.4"
TRAJ: 100 yds. zero	-1.5"	1.0"	0.0	-5.6"	-17.1"	-35.7"	-62.4"
TRAJ: 150 yds. zero	-1.5"	2.9"	3.7"	0.0	-9.6"	-26.3"	-51.2"
TRAJ: 200 yds. zero	-1.5"	5.3"	8.5"	7.2"	0.0	-14.3"	-36.8"
TRAJ: 250 yds. zero	-1.5"	8.1"	14.3"	15.8"	11.5"	0.0	-19.6"
TRAJ: 300 yds. zero	-1.5"	11.4"	20.8"	25.6"	24.5"	16.3"	0.0

30 CALIBER (.308" Dia.) 110 GRAIN SPIRE POINT
SECTIONAL DENSITY: .166 BALLISTIC COEFFICIENT: .256

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3900	3453	3050	2681	2341	2027	1739
ENERGY (ft.-lbs.)	3714	2911	2271	1756	1339	1003	739
TRAJ: 100 yds. zero	-1.5"	0.0	-1.4"	-6.6"	-16.6"	-33.0"	-57.9"
TRAJ: 200 yds. zero	-1.5"	0.7"	0.0	-4.5"	-13.8"	-29.5"	-53.7"
TRAJ: 300 yds. zero	-1.5"	2.2"	3.0"	0.0	-7.8"	-22.0"	-44.7"
TRAJ: 400 yds. zero	-1.5"	4.2"	6.9"	5.9"	0.0	-12.2"	-33.0"
TRAJ: 500 yds. zero	-1.5"	6.6"	11.8"	13.2"	9.8"	0.0	-18.3"
TRAJ: 600 yds. zero	-1.5"	9.7"	17.9"	22.4"	22.0"	15.2"	0.0
VELOCITY (fps)	3800	3363	2968	2606	2272	1963	1682
ENERGY (ft.-lbs.)	3526	2762	2151	1659	1261	941	691
TRAJ: 100 yds. zero	-1.5"	0.0	-1.6"	-7.1"	-17.8"	-35.3"	-61.8"
TRAJ: 200 yds. zero	-1.5"	0.8"	0.0	-4.8"	-14.6"	-31.3"	-57.0"
TRAJ: 300 yds. zero	-1.5"	2.4"	3.2"	0.0	-8.3"	-23.4"	-47.5"
TRAJ: 400 yds. zero	-1.5"	4.5"	7.3"	6.2"	0.0	-13.0"	-35.1"
TRAJ: 500 yds. zero	-1.5"	7.1"	12.5"	14.0"	10.4"	0.0	-19.5"
TRAJ: 600 yds. zero	-1.5"	10.3"	19.0"	23.8"	23.4"	16.2"	0.0
VELOCITY (fps)	3700	3273	2886	2531	2202	1899	1624
ENERGY (ft.-lbs.)	3343	2616	2034	1564	1184	880	644
TRAJ: 100 yds. zero	-1.5"	0.0	-1.8"	-7.7"	-19.1"	-37.7"	-66.1"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.1"	-15.6"	-33.3"	-60.8"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.4"	0.0	-8.8"	-24.9"	-50.6"
TRAJ: 400 yds. zero	-1.5"	4.8"	7.8"	6.6"	0.0	-13.8"	-37.4"
TRAJ: 500 yds. zero	-1.5"	7.5"	13.3"	14.9"	11.1"	0.0	-20.8"
TRAJ: 600 yds. zero	-1.5"	11.0"	20.3"	25.3"	24.9"	17.3"	0.0
VELOCITY (fps)	3600	3183	2804	2455	2132	1834	1567
ENERGY (ft.-lbs.)	3165	2474	1919	1471	1110	822	600
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.3"	-20.5"	-40.4"	-70.7"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.4"	-16.6"	-35.5"	-64.9"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.6"	0.0	-9.4"	-26.5"	-54.0"
TRAJ: 400 yds. zero	-1.5"	5.1"	8.3"	7.1"	0.0	-14.8"	-39.9"
TRAJ: 500 yds. zero	-1.5"	8.1"	14.2"	15.9"	11.8"	0.0	-22.2"
TRAJ: 600 yds. zero	-1.5"	11.8"	21.6"	27.0"	26.6"	18.5"	0.0
VELOCITY (fps)	3500	3092	2721	2378	2061	1770	1511
ENERGY (ft.-lbs.)	2992	2335	1808	1381	1037	765	558
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-9.0"	-22.1"	-43.4"	-75.9"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.8"	-17.8"	-38.0"	-69.4"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.9"	0.0	-10.0"	-28.3"	-57.8"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.9"	7.5"	0.0	-15.8"	-42.8"
TRAJ: 500 yds. zero	-1.5"	8.7"	15.2"	17.0"	12.6"	0.0	-23.8"
TRAJ: 600 yds. zero	-1.5"	12.6"	23.1"	28.9"	28.5"	19.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3002	2637	2301	1989	1706	1455
ENERGY (ft.-lbs.)	2823	2200	1698	1293	967	710	517
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.8"	-23.8"	-46.7"	-81.6"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.2"	-19.0"	-40.7"	-74.5"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.1"	0.0	-10.7"	-30.4"	-62.0"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.5"	8.1"	0.0	-16.9"	-45.9"
TRAJ: 500 yds. zero	-1.5"	9.3"	16.3"	18.2"	13.5"	0.0	-25.6"
TRAJ: 600 yds. zero	-1.5"	13.6"	24.8"	31.0"	30.6"	21.4"	0.0
VELOCITY (fps)	3300	2911	2553	2223	1918	1642	1401
ENERGY (ft.-lbs.)	2659	2069	1592	1207	898	658	479
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.6"	-25.7"	-50.3"	-88.0"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.7"	-20.4"	-43.7"	-80.1"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.5"	0.0	-11.5"	-32.6"	-66.7"
TRAJ: 400 yds. zero	-1.5"	6.4"	10.2"	8.6"	0.0	-18.2"	-49.4"
TRAJ: 500 yds. zero	-1.5"	10.1"	17.5"	19.6"	14.5"	0.0	-27.6"
TRAJ: 600 yds. zero	-1.5"	14.7"	26.7"	33.4"	33.0"	23.0"	0.0
VELOCITY (fps)	3200	2819	2469	2145	1847	1578	1348
ENERGY (ft.-lbs.)	2501	1941	1489	1124	833	608	444
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.5"	-27.8"	-54.3"	-95.0"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-7.2"	-22.0"	-47.1"	-86.3"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.8"	0.0	-12.4"	-35.1"	-71.9"
TRAJ: 400 yds. zero	-1.5"	6.9"	11.0"	9.3"	0.0	-19.6"	-53.3"
TRAJ: 500 yds. zero	-1.5"	10.9"	18.8"	21.1"	15.7"	0.0	-29.8"
TRAJ: 600 yds. zero	-1.5"	15.8"	28.8"	36.0"	35.6"	24.8"	0.0
VELOCITY (fps)	3100	2728	2384	2067	1775	1516	1297
ENERGY (ft.-lbs.)	2347	1817	1388	1043	770	561	411
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.6"	-30.1"	-58.8"	-102.9"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.8"	-23.7"	-50.8"	-93.3"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.2"	0.0	-13.4"	-37.9"	-77.8"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.9"	10.0"	0.0	-21.2"	-57.7"
TRAJ: 500 yds. zero	-1.5"	11.8"	20.3"	22.7"	16.9"	0.0	-32.3"
TRAJ: 600 yds. zero	-1.5"	17.1"	31.1"	38.9"	38.5"	26.9"	0.0
VELOCITY (fps)	3000	2636	2299	1988	1704	1454	1249
ENERGY (ft.-lbs.)	2198	1697	1291	965	709	517	381
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.7"	-32.7"	-63.8"	-111.6"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.4"	-25.6"	-55.0"	-101.0"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.6"	0.0	-14.5"	-41.0"	-84.3"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.8"	10.8"	0.0	-22.9"	-62.6"
TRAJ: 500 yds. zero	-1.5"	12.8"	22.0"	24.6"	18.4"	0.0	-35.0"
TRAJ: 600 yds. zero	-1.5"	18.6"	33.7"	42.1"	41.7"	29.2"	0.0
VELOCITY (fps)	2900	2544	2214	1910	1634	1395	1203
ENERGY (ft.-lbs.)	2054	1580	1197	891	652	475	353
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-15.0"	-35.6"	-69.5"	-121.4"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.1"	-27.8"	-59.7"	-109.7"
TRAJ: 300 yds. zero	-1.5"	5.0"	6.1"	0.0	-15.7"	-44.5"	-91.5"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.9"	11.8"	0.0	-24.9"	-68.0"
TRAJ: 500 yds. zero	-1.5"	13.9"	23.9"	26.7"	20.0"	0.0	-38.1"
TRAJ: 600 yds. zero	-1.5"	20.2"	36.6"	45.8"	45.3"	31.7"	0.0
VELOCITY (fps)	2800	2451	2128	1832	1565	1337	1161
ENERGY (ft.-lbs.)	1915	1467	1106	819	598	437	329
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-16.4"	-38.9"	-75.8"	-132.4"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.9"	-30.3"	-65.0"	-119.4"
TRAJ: 300 yds. zero	-1.5"	5.5"	6.6"	0.0	-17.1"	-48.5"	-99.6"
TRAJ: 400 yds. zero	-1.5"	9.7"	15.1"	12.8"	0.0	-27.2"	-74.0"
TRAJ: 500 yds. zero	-1.5"	15.2"	26.0"	29.1"	21.7"	0.0	-41.4"
TRAJ: 600 yds. zero	-1.5"	22.1"	39.8"	49.8"	49.3"	34.5"	0.0
VELOCITY (fps)	2700	2359	2043	1754	1497	1282	1122
ENERGY (ft.-lbs.)	1780	1359	1019	751	547	401	307
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-18.0"	-42.6"	-82.9"	-144.6"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.8"	-33.0"	-70.9"	-130.2"
TRAJ: 300 yds. zero	-1.5"	6.0"	7.2"	0.0	-18.6"	-52.9"	-108.6"
TRAJ: 400 yds. zero	-1.5"	10.6"	16.5"	14.0"	0.0	-29.7"	-80.7"
TRAJ: 500 yds. zero	-1.5"	16.6"	28.4"	31.8"	23.7"	0.0	-45.1"
TRAJ: 600 yds. zero	-1.5"	24.1"	43.4"	54.3"	53.8"	37.6"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2600	2266	1958	1677	1431	1230	1087
ENERGY (ft.-lbs.)	1651	1254	936	687	500	370	289
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.8"	-46.7"	-90.9"	-158.2"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.8"	-36.1"	-77.6"	-142.2"
TRAJ: 300 yds. zero	-1.5"	6.6"	7.9"	0.0	-20.4"	-57.9"	-118.6"
TRAJ: 400 yds. zero	-1.5"	11.7"	18.1"	15.3"	0.0	-32.5"	-88.0"
TRAJ: 500 yds. zero	-1.5"	18.2"	31.0"	34.7"	26.0"	0.0	-49.1"
TRAJ: 600 yds. zero	-1.5"	26.4"	47.4"	59.3"	58.7"	40.9"	0.0
VELOCITY (fps)	2500	2174	1873	1601	1367	1182	1056
ENERGY (ft.-lbs.)	1526	1154	856	626	457	341	272
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-21.8"	-51.4"	-99.9"	-173.2"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-13.0"	-39.6"	-85.1"	-155.4"
TRAJ: 300 yds. zero	-1.5"	7.3"	8.6"	0.0	-22.3"	-63.5"	-129.5"
TRAJ: 400 yds. zero	-1.5"	12.9"	19.8"	16.8"	0.0	-35.6"	-96.0"
TRAJ: 500 yds. zero	-1.5"	20.0"	34.0"	38.1"	28.4"	0.0	-53.3"
TRAJ: 600 yds. zero	-1.5"	28.9"	51.8"	64.8"	64.0"	44.5"	0.0
VELOCITY (fps)	2400	2081	1788	1527	1306	1139	1028
ENERGY (ft.-lbs.)	1407	1058	781	570	417	317	258
TRAJ: 100 yds. zero	-1.5"	0.0	-6.6"	-24.2"	-56.8"	-110.0"	-189.7"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-14.3"	-43.6"	-93.5"	-170.0"
TRAJ: 300 yds. zero	-1.5"	8.1"	9.5"	0.0	-24.6"	-69.7"	-141.4"
TRAJ: 400 yds. zero	-1.5"	14.2"	21.8"	18.4"	0.0	-39.0"	-104.6"
TRAJ: 500 yds. zero	-1.5"	22.0"	37.4"	41.8"	31.2"	0.0	-57.8"
TRAJ: 600 yds. zero	-1.5"	31.6"	56.7"	70.7"	69.7"	48.2"	0.0
VELOCITY (fps)	2300	1989	1705	1455	1249	1099	1002
ENERGY (ft.-lbs.)	1292	966	710	517	381	295	245
TRAJ: 100 yds. zero	-1.5"	0.0	-7.4"	-26.8"	-62.8"	-121.3"	-207.9"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-15.7"	-48.1"	-102.9"	-185.8"
TRAJ: 300 yds. zero	-1.5"	8.9"	10.5"	0.0	-27.1"	-76.6"	-154.3"
TRAJ: 400 yds. zero	-1.5"	15.7"	24.0"	20.3"	0.0	-42.8"	-113.7"
TRAJ: 500 yds. zero	-1.5"	24.3"	41.1"	46.0"	34.2"	0.0	-62.4"
TRAJ: 600 yds. zero	-1.5"	34.6"	61.9"	77.2"	75.8"	52.0"	0.0
VELOCITY (fps)	2200	1897	1623	1385	1196	1065	978
ENERGY (ft.-lbs.)	1182	879	643	469	349	277	233
TRAJ: 100 yds. zero	-1.5"	0.0	-8.2"	-29.8"	-69.7"	-133.9"	-227.7"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-17.4"	-53.2"	-113.3"	-203.0"
TRAJ: 300 yds. zero	-1.5"	9.9"	11.6"	0.0	-29.9"	-84.2"	-168.1"
TRAJ: 400 yds. zero	-1.5"	17.4"	26.6"	22.4"	0.0	-46.8"	-123.2"
TRAJ: 500 yds. zero	-1.5"	26.8"	45.3"	50.5"	37.4"	0.0	-67.1"
TRAJ: 600 yds. zero	-1.5"	38.0"	67.7"	84.1"	82.2"	55.9"	0.0
VELOCITY (fps)	2100	1806	1542	1319	1147	1033	955
ENERGY (ft.-lbs.)	1077	796	581	425	321	261	223
TRAJ: 100 yds. zero	-1.5"	0.0	-9.3"	-33.3"	-77.4"	-147.8"	-249.3"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-19.4"	-58.9"	-124.7"	-221.5"
TRAJ: 300 yds. zero	-1.5"	11.1"	12.9"	0.0	-33.1"	-92.4"	-182.8"
TRAJ: 400 yds. zero	-1.5"	19.4"	29.4"	24.8"	0.0	-51.0"	-133.2"
TRAJ: 500 yds. zero	-1.5"	29.6"	49.9"	55.4"	40.8"	0.0	-71.9"
TRAJ: 600 yds. zero	-1.5"	41.5"	73.8"	91.4"	88.8"	59.9"	0.0
VELOCITY (fps)	2000	1715	1464	1256	1104	1005	934
ENERGY (ft.-lbs.)	977	718	523	385	298	247	213
TRAJ: 100 yds. zero	-1.5"	0.0	-10.4"	-37.2"	-86.1"	-163.1"	-272.7"
TRAJ: 200 yds. zero	-1.5"	5.2"	0.0	-21.6"	-65.3"	-137.1"	-241.4"
TRAJ: 300 yds. zero	-1.5"	12.4"	14.4"	0.0	-36.5"	-101.1"	-198.3"
TRAJ: 400 yds. zero	-1.5"	21.5"	32.6"	27.4"	0.0	-55.5"	-143.5"
TRAJ: 500 yds. zero	-1.5"	32.6"	54.8"	60.7"	44.4"	0.0	-76.9"
TRAJ: 600 yds. zero	-1.5"	45.4"	80.5"	99.1"	95.6"	64.1"	0.0
VELOCITY (fps)	1900	1626	1387	1197	1066	978	914
ENERGY (ft.-lbs.)	882	645	470	350	277	234	204
TRAJ: 100 yds. zero	-1.5"	0.0	-11.8"	-41.7"	-95.9"	-179.9"	-298.0"
TRAJ: 200 yds. zero	-1.5"	5.9"	0.0	-24.1"	-72.4"	-150.5"	-262.7"
TRAJ: 300 yds. zero	-1.5"	13.9"	16.0"	0.0	-40.3"	-110.4"	-214.6"
TRAJ: 400 yds. zero	-1.5"	24.0"	36.2"	30.2"	0.0	-60.0"	-154.1"
TRAJ: 500 yds. zero	-1.5"	36.0"	60.2"	66.2"	48.0"	0.0	-82.1"
TRAJ: 600 yds. zero	-1.5"	49.7"	87.6"	107.3"	102.8"	68.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1800	1537	1315	1144	1031	954	894
ENERGY (ft.-lbs.)	791	577	422	320	260	222	195
TRAJ: 100 yds. zero	-1.5"	0.0	-13.3"	-46.9"	-106.8"	-198.3"	-325.5"
TRAJ: 200 yds. zero	-1.5"	6.7"	0.0	-26.9"	-80.2"	-165.0"	-285.5"
TRAJ: 300 yds. zero	-1.5"	15.6"	17.9"	0.0	-44.3"	-120.1"	-231.7"
TRAJ: 400 yds. zero	-1.5"	26.7"	40.1"	33.2"	0.0	-64.8"	-165.2"
TRAJ: 500 yds. zero	-1.5"	39.7"	66.0"	72.1"	51.8"	0.0	-87.5"
TRAJ: 600 yds. zero	-1.5"	54.2"	95.2"	115.9"	110.2"	72.9"	0.0

30 CALIBER (.308" Dia.) 110 GRAIN ROUND NOSE
SECTIONAL DENSITY: .166 BALLISTIC COEFFICIENT: .150

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2700	2407	2133	1878	1643	1435	1260
ENERGY (ft.-lbs.)	1780	1415	1111	861	660	503	388
TRAJ: 50 yds. zero	-1.5"	0.0	-0.0"	-1.9"	-6.3"	-14.0"	-25.9"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.9"	-6.3"	-14.0"	-25.9"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.3"	0.0	-3.8"	-10.8"	-22.0"
TRAJ: 200 yds. zero	-1.5"	1.6"	3.2"	2.8"	0.0	-6.1"	-16.4"
TRAJ: 250 yds. zero	-1.5"	2.8"	5.6"	6.5"	4.9"	0.0	-9.1"
TRAJ: 300 yds. zero	-1.5"	4.3"	8.6"	11.0"	10.9"	7.6"	0.0
VELOCITY (fps)	2600	2314	2045	1797	1571	1373	1210
ENERGY (ft.-lbs.)	1651	1307	1022	788	602	460	358
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.4"	-7.3"	-15.8"	-28.9"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.2"	-7.0"	-15.4"	-28.5"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-4.1"	-11.8"	-24.2"
TRAJ: 200 yds. zero	-1.5"	1.8"	3.5"	3.1"	0.0	-6.7"	-18.0"
TRAJ: 250 yds. zero	-1.5"	3.2"	6.2"	7.1"	5.3"	0.0	-10.0"
TRAJ: 300 yds. zero	-1.5"	4.8"	9.5"	12.1"	12.0"	8.3"	0.0
VELOCITY (fps)	2500	2220	1958	1717	1499	1313	1164
ENERGY (ft.-lbs.)	1526	1203	936	720	549	421	331
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-2.8"	-8.3"	-17.8"	-32.3"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.4"	-7.8"	-17.1"	-31.5"
TRAJ: 150 yds. zero	-1.5"	0.9"	1.6"	0.0	-4.6"	-13.1"	-26.6"
TRAJ: 200 yds. zero	-1.5"	2.1"	3.9"	3.4"	0.0	-7.3"	-19.8"
TRAJ: 250 yds. zero	-1.5"	3.6"	6.8"	7.8"	5.9"	0.0	-11.0"
TRAJ: 300 yds. zero	-1.5"	5.4"	10.5"	13.3"	13.2"	9.1"	0.0
VELOCITY (fps)	2400	2126	1871	1638	1430	1256	1123
ENERGY (ft.-lbs.)	1407	1104	855	655	500	385	308
TRAJ: 50 yds. zero	-1.5"	0.0	-0.4"	-3.4"	-9.6"	-20.0"	-36.1"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.7"	-8.7"	-19.0"	-34.8"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.8"	0.0	-5.1"	-14.4"	-29.3"
TRAJ: 200 yds. zero	-1.5"	2.4"	4.3"	3.8"	0.0	-8.1"	-21.7"
TRAJ: 250 yds. zero	-1.5"	4.0"	7.6"	8.7"	6.5"	0.0	-12.0"
TRAJ: 300 yds. zero	-1.5"	6.0"	11.6"	14.7"	14.5"	10.0"	0.0
VELOCITY (fps)	2300	2033	1785	1560	1364	1203	1086
ENERGY (ft.-lbs.)	1292	1009	778	594	454	354	288
TRAJ: 50 yds. zero	-1.5"	0.0	-0.6"	-4.0"	-10.9"	-22.6"	-40.3"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-3.1"	-9.7"	-21.1"	-38.5"
TRAJ: 150 yds. zero	-1.5"	1.3"	2.0"	0.0	-5.6"	-16.0"	-32.3"
TRAJ: 200 yds. zero	-1.5"	2.7"	4.9"	4.2"	0.0	-8.9"	-23.9"
TRAJ: 250 yds. zero	-1.5"	4.5"	8.4"	9.6"	7.1"	0.0	-13.2"
TRAJ: 300 yds. zero	-1.5"	6.7"	12.8"	16.2"	15.9"	11.0"	0.0
VELOCITY (fps)	2200	1940	1700	1485	1300	1155	1052
ENERGY (ft.-lbs.)	1182	919	706	538	413	326	270
TRAJ: 50 yds. zero	-1.5"	0.0	-0.8"	-4.7"	-12.5"	-25.5"	-45.0"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.4"	-10.8"	-23.4"	-42.5"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.3"	0.0	-6.3"	-17.7"	-35.6"
TRAJ: 200 yds. zero	-1.5"	3.1"	5.4"	4.7"	0.0	-9.9"	-26.2"
TRAJ: 250 yds. zero	-1.5"	5.1"	9.4"	10.6"	7.9"	0.0	-14.4"
TRAJ: 300 yds. zero	-1.5"	7.5"	14.2"	17.8"	17.5"	12.0"	0.0
VELOCITY (fps)	2100	1847	1616	1411	1241	1112	1022
ENERGY (ft.-lbs.)	1077	833	638	486	376	302	255
TRAJ: 50 yds. zero	-1.5"	0.0	-1.1"	-5.5"	-14.3"	-28.8"	-50.2"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.9"	-12.2"	-26.1"	-47.0"
TRAJ: 150 yds. zero	-1.5"	1.8"	2.6"	0.0	-7.0"	-19.6"	-39.2"
TRAJ: 200 yds. zero	-1.5"	3.6"	6.1"	5.2"	0.0	-10.9"	-28.8"
TRAJ: 250 yds. zero	-1.5"	5.8"	10.4"	11.8"	8.7"	0.0	-15.7"
TRAJ: 300 yds. zero	-1.5"	8.4"	15.7"	19.6"	19.2"	13.1"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2000	1755	1533	1341	1186	1073	995
ENERGY (ft.-lbs.)	977	752	574	439	343	281	242
TRAJ: 50 yds. zero	-1.5"	0.0	-1.3"	-6.4"	-16.3"	-32.4"	-55.9"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.4"	-13.6"	-29.1"	-51.9"
TRAJ: 150 yds. zero	-1.5"	2.1"	2.9"	0.0	-7.8"	-21.8"	-43.1"
TRAJ: 200 yds. zero	-1.5"	4.1"	6.8"	5.8"	0.0	-12.0"	-31.4"
TRAJ: 250 yds. zero	-1.5"	6.5"	11.6"	13.1"	9.6"	0.0	-17.0"
TRAJ: 300 yds. zero	-1.5"	9.3"	17.3"	21.5"	20.9"	14.1"	0.0
VELOCITY (fps)	1900	1664	1453	1274	1136	1039	970
ENERGY (ft.-lbs.)	882	676	516	397	315	264	230
TRAJ: 50 yds. zero	-1.5"	0.0	-1.7"	-7.5"	-18.6"	-36.5"	-62.1"
TRAJ: 100 yds. zero	-1.5"	0.8"	0.0	-5.0"	-15.3"	-32.3"	-57.1"
TRAJ: 150 yds. zero	-1.5"	2.5"	3.3"	0.0	-8.7"	-24.1"	-47.2"
TRAJ: 200 yds. zero	-1.5"	4.7"	7.7"	6.5"	0.0	-13.2"	-34.2"
TRAJ: 250 yds. zero	-1.5"	7.3"	12.9"	14.4"	10.6"	0.0	-18.3"
TRAJ: 300 yds. zero	-1.5"	10.4"	19.0"	23.6"	22.8"	15.3"	0.0
VELOCITY (fps)	1800	1574	1375	1212	1092	1008	946
ENERGY (ft.-lbs.)	791	605	462	359	291	248	219
TRAJ: 50 yds. zero	-1.5"	0.0	-2.0"	-8.7"	-21.3"	-41.0"	-68.9"
TRAJ: 100 yds. zero	-1.5"	1.0"	0.0	-5.6"	-17.2"	-35.9"	-62.9"
TRAJ: 150 yds. zero	-1.5"	2.9"	3.8"	0.0	-9.7"	-26.5"	-51.6"
TRAJ: 200 yds. zero	-1.5"	5.3"	8.6"	7.3"	0.0	-14.4"	-37.1"
TRAJ: 250 yds. zero	-1.5"	8.2"	14.4"	15.9"	11.6"	0.0	-19.7"
TRAJ: 300 yds. zero	-1.5"	11.5"	21.0"	25.8"	24.7"	16.4"	0.0

30 CALIBER (.308" Dia.) 110 GRAIN FULL METAL JACKET
SECTIONAL DENSITY: .166 BALLISTIC COEFFICIENT: .178

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2700	2452	2217	1996	1788	1597	1424
ENERGY (ft.-lbs.)	1780	1468	1201	973	781	623	496
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.7"	-5.6"	-12.2"	-22.3"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-1.7"	-5.7"	-12.4"	-22.5"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.2"	0.0	-3.4"	-9.4"	-19.0"
TRAJ: 200 yds. zero	-1.5"	1.4"	2.8"	2.5"	0.0	-5.3"	-13.9"
TRAJ: 250 yds. zero	-1.5"	2.4"	4.9"	5.7"	4.2"	0.0	-7.6"
TRAJ: 300 yds. zero	-1.5"	3.7"	7.5"	9.5"	9.3"	6.4"	0.0
VELOCITY (fps)	2600	2357	2128	1912	1710	1526	1362
ENERGY (ft.-lbs.)	1651	1357	1106	892	714	569	453
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.1"	-6.4"	-13.8"	-25.0"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-2.0"	-6.3"	-13.6"	-24.7"
TRAJ: 150 yds. zero	-1.5"	0.7"	1.3"	0.0	-3.7"	-10.4"	-20.8"
TRAJ: 200 yds. zero	-1.5"	1.6"	3.2"	2.8"	0.0	-5.8"	-15.3"
TRAJ: 250 yds. zero	-1.5"	2.8"	5.5"	6.2"	4.6"	0.0	-8.4"
TRAJ: 300 yds. zero	-1.5"	4.2"	8.2"	10.4"	10.2"	7.0"	0.0
VELOCITY (fps)	2500	2263	2038	1828	1633	1457	1303
ENERGY (ft.-lbs.)	1526	1250	1015	816	651	518	415
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.5"	-7.4"	-15.6"	-27.9"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.2"	-7.0"	-15.1"	-27.3"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.5"	0.0	-4.1"	-11.4"	-22.9"
TRAJ: 200 yds. zero	-1.5"	1.9"	3.5"	3.1"	0.0	-6.3"	-16.8"
TRAJ: 250 yds. zero	-1.5"	3.1"	6.0"	6.9"	5.1"	0.0	-9.2"
TRAJ: 300 yds. zero	-1.5"	4.7"	9.1"	11.5"	11.2"	7.7"	0.0
VELOCITY (fps)	2400	2168	1949	1745	1557	1390	1247
ENERGY (ft.-lbs.)	1407	1148	928	744	592	472	380
TRAJ: 50 yds. zero	-1.5"	0.0	-0.4"	-3.0"	-8.5"	-17.6"	-31.3"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.5"	-7.8"	-16.8"	-30.2"
TRAJ: 150 yds. zero	-1.5"	1.0"	1.6"	0.0	-4.5"	-12.6"	-25.3"
TRAJ: 200 yds. zero	-1.5"	2.1"	3.9"	3.4"	0.0	-7.0"	-18.5"
TRAJ: 250 yds. zero	-1.5"	3.5"	6.7"	7.6"	5.6"	0.0	-10.1"
TRAJ: 300 yds. zero	-1.5"	5.2"	10.1"	12.6"	12.3"	8.4"	0.0
VELOCITY (fps)	2300	2074	1861	1663	1484	1326	1195
ENERGY (ft.-lbs.)	1292	1050	846	676	538	429	349
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.6"	-9.8"	-20.0"	-35.1"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.8"	-8.7"	-18.6"	-33.5"
TRAJ: 150 yds. zero	-1.5"	1.2"	1.9"	0.0	-5.0"	-14.0"	-28.0"
TRAJ: 200 yds. zero	-1.5"	2.4"	4.4"	3.8"	0.0	-7.7"	-20.4"
TRAJ: 250 yds. zero	-1.5"	4.0"	7.5"	8.4"	6.2"	0.0	-11.2"
TRAJ: 300 yds. zero	-1.5"	5.9"	11.2"	14.0"	13.6"	9.3"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2200	1979	1773	1583	1412	1266	1148
ENERGY (ft.-lbs.)	1182	957	768	612	487	391	322
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.2"	-11.2"	-22.6"	-39.4"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.1"	-9.8"	-20.8"	-37.2"
TRAJ: 150 yds. zero	-1.5"	1.4"	2.1"	0.0	-5.6"	-15.5"	-31.0"
TRAJ: 200 yds. zero	-1.5"	2.8"	4.9"	4.2"	0.0	-8.6"	-22.6"
TRAJ: 250 yds. zero	-1.5"	4.5"	8.3"	9.3"	6.9"	0.0	-12.3"
TRAJ: 300 yds. zero	-1.5"	6.6"	12.4"	15.5"	15.1"	10.3"	0.0
VELOCITY (fps)	2100	1886	1686	1504	1344	1209	1106
ENERGY (ft.-lbs.)	1077	868	694	552	441	357	299
TRAJ: 50 yds. zero	-1.5"	0.0	-1.0"	-5.0"	-12.9"	-25.6"	-44.3"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.5"	-11.0"	-23.2"	-41.4"
TRAJ: 150 yds. zero	-1.5"	1.7"	2.4"	0.0	-6.2"	-17.3"	-34.3"
TRAJ: 200 yds. zero	-1.5"	3.2"	5.5"	4.7"	0.0	-9.5"	-25.0"
TRAJ: 250 yds. zero	-1.5"	5.1"	9.3"	10.4"	7.6"	0.0	-13.6"
TRAJ: 300 yds. zero	-1.5"	7.4"	13.8"	17.2"	16.7"	11.3"	0.0
VELOCITY (fps)	2000	1792	1600	1428	1279	1158	1068
ENERGY (ft.-lbs.)	977	784	625	498	399	328	279
TRAJ: 50 yds. zero	-1.5"	0.0	-1.2"	-5.8"	-14.7"	-29.0"	-49.7"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-4.0"	-12.3"	-26.0"	-46.1"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.7"	0.0	-7.0"	-19.3"	-38.0"
TRAJ: 200 yds. zero	-1.5"	3.7"	6.2"	5.2"	0.0	-10.6"	-27.6"
TRAJ: 250 yds. zero	-1.5"	5.8"	10.4"	11.6"	8.4"	0.0	-14.9"
TRAJ: 300 yds. zero	-1.5"	8.3"	15.4"	19.0"	18.4"	12.4"	0.0
VELOCITY (fps)	1900	1699	1516	1354	1218	1112	1035
ENERGY (ft.-lbs.)	882	705	561	448	362	302	261
TRAJ: 50 yds. zero	-1.5"	0.0	-1.5"	-6.8"	-16.9"	-32.9"	-55.8"
TRAJ: 100 yds. zero	-1.5"	0.8"	0.0	-4.6"	-13.9"	-29.1"	-51.2"
TRAJ: 150 yds. zero	-1.5"	2.3"	3.0"	0.0	-7.8"	-21.5"	-42.1"
TRAJ: 200 yds. zero	-1.5"	4.2"	6.9"	5.8"	0.0	-11.7"	-30.4"
TRAJ: 250 yds. zero	-1.5"	6.6"	11.6"	12.9"	9.4"	0.0	-16.3"
TRAJ: 300 yds. zero	-1.5"	9.3"	17.1"	21.1"	20.3"	13.6"	0.0
VELOCITY (fps)	1800	1607	1434	1284	1162	1071	1004
ENERGY (ft.-lbs.)	791	631	502	403	330	280	246
TRAJ: 50 yds. zero	-1.5"	0.0	-1.9"	-8.0"	-19.4"	-37.2"	-62.5"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-5.2"	-15.6"	-32.5"	-56.9"
TRAJ: 150 yds. zero	-1.5"	2.7"	3.5"	0.0	-8.7"	-23.9"	-46.5"
TRAJ: 200 yds. zero	-1.5"	4.8"	7.8"	6.6"	0.0	-13.0"	-33.4"
TRAJ: 250 yds. zero	-1.5"	7.4"	13.0"	14.3"	10.4"	0.0	-17.8"
TRAJ: 300 yds. zero	-1.5"	10.4"	19.0"	23.2"	22.3"	14.8"	0.0

30 CALIBER (.308" Dia.) 130 GRAIN SPIRE POINT OR SINGLE SHOT PISTOL
SECTIONAL DENSITY: .196 BALLISTIC COEFFICIENT: .295

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3700	3327	2985	2668	2373	2096	1839
ENERGY (ft.-lbs.)	3951	3195	2572	2055	1625	1268	977
TRAJ: 100 yds. zero	-1.5"	0.0	-1.7"	-7.2"	-17.7"	-34.3"	-58.9"
TRAJ: 200 yds. zero	-1.5"	0.8"	0.0	-4.7"	-14.4"	-30.2"	-54.0"
TRAJ: 300 yds. zero	-1.5"	2.4"	3.2"	0.0	-8.1"	-22.3"	-44.5"
TRAJ: 400 yds. zero	-1.5"	4.4"	7.2"	6.0"	0.0	-12.2"	-32.4"
TRAJ: 500 yds. zero	-1.5"	6.9"	12.1"	13.4"	9.8"	0.0	-17.7"
TRAJ: 600 yds. zero	-1.5"	9.8"	18.0"	22.2"	21.6"	14.8"	0.0
VELOCITY (fps)	3600	3236	2901	2590	2299	2028	1776
ENERGY (ft.-lbs.)	3740	3022	2428	1936	1526	1187	911
TRAJ: 100 yds. zero	-1.5"	0.0	-1.8"	-7.8"	-19.0"	-36.8"	-63.0"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-5.1"	-15.3"	-32.2"	-57.5"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.4"	0.0	-8.6"	-23.7"	-47.4"
TRAJ: 400 yds. zero	-1.5"	4.7"	7.7"	6.4"	0.0	-13.0"	-34.5"
TRAJ: 500 yds. zero	-1.5"	7.4"	12.9"	14.2"	10.4"	0.0	-18.9"
TRAJ: 600 yds. zero	-1.5"	10.5"	19.2"	23.7"	23.0"	15.8"	0.0
VELOCITY (fps)	3500	3144	2816	2511	2225	1959	1713
ENERGY (ft.-lbs.)	3535	2853	2288	1819	1429	1107	847
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.5"	-20.4"	-39.4"	-67.5"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.4"	-16.4"	-34.4"	-61.5"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.6"	0.0	-9.1"	-25.3"	-50.6"
TRAJ: 400 yds. zero	-1.5"	5.1"	8.2"	6.9"	0.0	-13.9"	-36.9"
TRAJ: 500 yds. zero	-1.5"	7.9"	13.7"	15.2"	11.1"	0.0	-20.2"
TRAJ: 600 yds. zero	-1.5"	11.3"	20.5"	25.3"	24.6"	16.9"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3052	2731	2431	2151	1890	1651
ENERGY (ft.-lbs.)	3336	2689	2152	1706	1335	1031	786
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-9.2"	-22.0"	-42.4"	-72.5"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.8"	-17.5"	-36.8"	-65.8"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.9"	0.0	-9.8"	-27.1"	-54.2"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.8"	7.3"	0.0	-14.9"	-39.5"
TRAJ: 500 yds. zero	-1.5"	8.5"	14.7"	16.3"	11.9"	0.0	-21.7"
TRAJ: 600 yds. zero	-1.5"	12.1"	21.9"	27.1"	26.4"	18.1"	0.0
VELOCITY (fps)	3300	2960	2645	2351	2076	1821	1589
ENERGY (ft.-lbs.)	3143	2529	2019	1595	1244	957	728
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-10.0"	-23.7"	-45.6"	-78.1"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.2"	-18.8"	-39.4"	-70.6"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.2"	0.0	-10.5"	-29.0"	-58.2"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.4"	7.9"	0.0	-16.0"	-42.5"
TRAJ: 500 yds. zero	-1.5"	9.1"	15.8"	17.4"	12.8"	0.0	-23.3"
TRAJ: 600 yds. zero	-1.5"	13.0"	23.5"	29.1"	28.3"	19.4"	0.0
VELOCITY (fps)	3200	2868	2559	2270	2001	1752	1527
ENERGY (ft.-lbs.)	2955	2373	1890	1488	1156	886	673
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.8"	-25.7"	-49.2"	-84.3"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.7"	-20.2"	-42.4"	-76.0"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.5"	0.0	-11.2"	-31.2"	-62.6"
TRAJ: 400 yds. zero	-1.5"	6.4"	10.1"	8.4"	0.0	-17.2"	-45.8"
TRAJ: 500 yds. zero	-1.5"	9.8"	17.0"	18.7"	13.7"	0.0	-25.2"
TRAJ: 600 yds. zero	-1.5"	14.0"	25.3"	31.3"	30.5"	21.0"	0.0
VELOCITY (fps)	3100	2775	2473	2190	1926	1683	1467
ENERGY (ft.-lbs.)	2774	2223	1764	1384	1070	818	621
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.8"	-27.8"	-53.3"	-91.1"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.2"	-21.7"	-45.7"	-82.0"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.8"	0.0	-12.1"	-33.6"	-67.6"
TRAJ: 400 yds. zero	-1.5"	7.0"	10.9"	9.1"	0.0	-18.5"	-49.4"
TRAJ: 500 yds. zero	-1.5"	10.7"	18.3"	20.2"	14.8"	0.0	-27.2"
TRAJ: 600 yds. zero	-1.5"	15.2"	27.3"	33.8"	32.9"	22.7"	0.0
VELOCITY (fps)	3000	2682	2386	2108	1851	1615	1408
ENERGY (ft.-lbs.)	2597	2076	1643	1283	989	753	572
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.8"	-30.2"	-57.8"	-98.8"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.8"	-23.5"	-49.4"	-88.7"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.2"	0.0	-13.1"	-36.4"	-73.1"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.7"	9.8"	0.0	-20.0"	-53.5"
TRAJ: 500 yds. zero	-1.5"	11.6"	19.8"	21.8"	16.0"	0.0	-29.5"
TRAJ: 600 yds. zero	-1.5"	16.5"	29.6"	36.6"	35.7"	24.6"	0.0
VELOCITY (fps)	2900	2589	2299	2027	1776	1548	1351
ENERGY (ft.-lbs.)	2427	1935	1525	1186	910	692	527
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-14.0"	-32.9"	-62.8"	-107.4"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.5"	-25.4"	-53.5"	-96.3"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.6"	0.0	-14.2"	-39.4"	-79.3"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.7"	10.6"	0.0	-21.7"	-58.1"
TRAJ: 500 yds. zero	-1.5"	12.6"	21.4"	23.7"	17.4"	0.0	-32.0"
TRAJ: 600 yds. zero	-1.5"	17.9"	32.1"	39.7"	38.7"	26.7"	0.0
VELOCITY (fps)	2800	2496	2211	1946	1702	1483	1296
ENERGY (ft.-lbs.)	2263	1798	1411	1093	836	635	485
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-15.4"	-35.9"	-68.5"	-117.0"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.2"	-27.6"	-58.2"	-104.7"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.1"	0.0	-15.4"	-42.9"	-86.3"
TRAJ: 400 yds. zero	-1.5"	9.0"	13.8"	11.5"	0.0	-23.6"	-63.3"
TRAJ: 500 yds. zero	-1.5"	13.7"	23.3"	25.7"	18.9"	0.0	-34.9"
TRAJ: 600 yds. zero	-1.5"	19.5"	34.9"	43.2"	42.2"	29.1"	0.0
VELOCITY (fps)	2700	2402	2124	1865	1628	1419	1244
ENERGY (ft.-lbs.)	2104	1666	1302	1004	765	581	447
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-16.9"	-39.2"	-74.8"	-127.9"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.0"	-30.1"	-63.4"	-114.2"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.7"	0.0	-16.7"	-46.7"	-94.2"
TRAJ: 400 yds. zero	-1.5"	9.8"	15.1"	12.6"	0.0	-25.8"	-69.0"
TRAJ: 500 yds. zero	-1.5"	15.0"	25.4"	28.0"	20.6"	0.0	-38.1"
TRAJ: 600 yds. zero	-1.5"	21.3"	38.1"	47.1"	46.0"	31.7"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2600	2309	2037	1785	1556	1357	1196
ENERGY (ft.-lbs.)	1951	1539	1197	919	699	532	413
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-18.5"	-43.0"	-82.0"	-140.0"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-11.0"	-32.9"	-69.3"	-124.9"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.3"	0.0	-18.3"	-51.1"	-102.9"
TRAJ: 400 yds. zero	-1.5"	10.8"	16.5"	13.7"	0.0	-28.2"	-75.5"
TRAJ: 500 yds. zero	-1.5"	16.4"	27.7"	30.7"	22.6"	0.0	-41.6"
TRAJ: 600 yds. zero	-1.5"	23.3"	41.6"	51.5"	50.3"	34.7"	0.0
VELOCITY (fps)	2500	2215	1950	1705	1486	1298	1152
ENERGY (ft.-lbs.)	1804	1416	1097	839	637	487	383
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-20.4"	-47.3"	-90.1"	-153.7"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-12.0"	-36.1"	-76.0"	-136.8"
TRAJ: 300 yds. zero	-1.5"	6.8"	8.0"	0.0	-20.1"	-56.0"	-112.8"
TRAJ: 400 yds. zero	-1.5"	11.8"	18.0"	15.0"	0.0	-30.9"	-82.7"
TRAJ: 500 yds. zero	-1.5"	18.0"	30.4"	33.6"	24.7"	0.0	-45.6"
TRAJ: 600 yds. zero	-1.5"	25.6"	45.6"	56.4"	55.1"	38.0"	0.0
VELOCITY (fps)	2400	2122	1863	1627	1417	1243	1112
ENERGY (ft.-lbs.)	1662	1299	1002	764	580	446	357
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-22.6"	-52.2"	-99.3"	-169.0"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-13.2"	-39.7"	-83.6"	-150.2"
TRAJ: 300 yds. zero	-1.5"	7.5"	8.8"	0.0	-22.1"	-61.6"	-123.7"
TRAJ: 400 yds. zero	-1.5"	13.1"	19.8"	16.5"	0.0	-34.0"	-90.7"
TRAJ: 500 yds. zero	-1.5"	19.9"	33.4"	36.9"	27.2"	0.0	-49.9"
TRAJ: 600 yds. zero	-1.5"	28.2"	50.1"	61.9"	60.4"	41.6"	0.0
VELOCITY (fps)	2300	2028	1777	1550	1352	1191	1076
ENERGY (ft.-lbs.)	1527	1188	911	693	527	410	334
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-25.1"	-57.7"	-109.6"	-186.0"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-14.6"	-43.7"	-92.1"	-165.0"
TRAJ: 300 yds. zero	-1.5"	8.4"	9.7"	0.0	-24.3"	-67.8"	-135.9"
TRAJ: 400 yds. zero	-1.5"	14.4"	21.9"	18.2"	0.0	-37.4"	-99.4"
TRAJ: 500 yds. zero	-1.5"	21.9"	36.8"	40.7"	29.9"	0.0	-54.5"
TRAJ: 600 yds. zero	-1.5"	31.0"	55.0"	67.9"	66.3"	45.4"	0.0
VELOCITY (fps)	2200	1935	1692	1474	1289	1145	1044
ENERGY (ft.-lbs.)	1397	1081	826	627	480	378	314
TRAJ: 100 yds. zero	-1.5"	0.0	-7.8"	-27.9"	-64.1"	-121.3"	-204.9"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-16.1"	-48.4"	-101.7"	-181.4"
TRAJ: 300 yds. zero	-1.5"	9.3"	10.8"	0.0	-26.9"	-74.8"	-149.1"
TRAJ: 400 yds. zero	-1.5"	16.0"	24.2"	20.2"	0.0	-41.2"	-108.8"
TRAJ: 500 yds. zero	-1.5"	24.3"	40.7"	44.9"	33.0"	0.0	-59.4"
TRAJ: 600 yds. zero	-1.5"	34.2"	60.5"	74.6"	72.6"	49.5"	0.0
VELOCITY (fps)	2100	1843	1608	1402	1231	1103	1015
ENERGY (ft.-lbs.)	1273	980	747	567	437	351	297
TRAJ: 100 yds. zero	-1.5"	0.0	-8.8"	-31.1"	-71.3"	-134.5"	-225.8"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-17.9"	-53.7"	-112.5"	-199.4"
TRAJ: 300 yds. zero	-1.5"	10.4"	12.0"	0.0	-29.8"	-82.6"	-163.5"
TRAJ: 400 yds. zero	-1.5"	17.8"	26.8"	22.3"	0.0	-45.4"	-118.9"
TRAJ: 500 yds. zero	-1.5"	26.9"	45.0"	49.5"	36.3"	0.0	-64.4"
TRAJ: 600 yds. zero	-1.5"	37.6"	66.5"	81.8"	79.3"	53.7"	0.0
VELOCITY (fps)	2000	1751	1526	1332	1177	1066	988
ENERGY (ft.-lbs.)	1154	885	672	512	400	328	282
TRAJ: 100 yds. zero	-1.5"	0.0	-9.9"	-34.8"	-79.5"	-149.2"	-248.7"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-20.0"	-59.6"	-124.4"	-219.0"
TRAJ: 300 yds. zero	-1.5"	11.6"	13.3"	0.0	-33.0"	-91.1"	-179.0"
TRAJ: 400 yds. zero	-1.5"	19.9"	29.8"	24.8"	0.0	-49.9"	-129.5"
TRAJ: 500 yds. zero	-1.5"	29.8"	49.8"	54.7"	39.9"	0.0	-69.6"
TRAJ: 600 yds. zero	-1.5"	41.4"	73.0"	89.5"	86.3"	58.0"	0.0
VELOCITY (fps)	1900	1660	1446	1266	1128	1032	964
ENERGY (ft.-lbs.)	1042	795	604	463	367	308	268
TRAJ: 100 yds. zero	-1.5"	0.0	-11.2"	-39.1"	-88.8"	-165.6"	-273.7"
TRAJ: 200 yds. zero	-1.5"	5.6"	0.0	-22.3"	-66.4"	-137.6"	-240.1"
TRAJ: 300 yds. zero	-1.5"	13.0"	14.9"	0.0	-36.7"	-100.4"	-195.5"
TRAJ: 400 yds. zero	-1.5"	22.2"	33.2"	27.5"	0.0	-54.6"	-140.5"
TRAJ: 500 yds. zero	-1.5"	33.1"	55.0"	60.2"	43.7"	0.0	-75.0"
TRAJ: 600 yds. zero	-1.5"	45.6"	80.0"	97.8"	93.7"	62.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1800	1570	1369	1205	1085	1002	940
ENERGY (ft.-lbs.)	935	711	541	419	340	290	255
TRAJ: 100 yds. zero	-1.5"	0.0	-12.7"	-44.0"	-99.3"	-183.6"	-301.0"
TRAJ: 200 yds. zero	-1.5"	6.3"	0.0	-25.0"	-74.0"	-151.9"	-262.9"
TRAJ: 300 yds. zero	-1.5"	14.7"	16.7"	0.0	-40.6"	-110.3"	-212.9"
TRAJ: 400 yds. zero	-1.5"	24.8"	37.0"	30.5"	0.0	-59.5"	-152.0"
TRAJ: 500 yds. zero	-1.5"	36.7"	60.8"	66.2"	47.6"	0.0	-80.6"
TRAJ: 600 yds. zero	-1.5"	50.2"	87.6"	106.5"	101.3"	67.1"	0.0
VELOCITY (fps)	1700	1481	1295	1149	1047	974	918
ENERGY (ft.-lbs.)	834	633	484	381	316	274	243
TRAJ: 100 yds. zero	-1.5"	0.0	-14.4"	-49.7"	-111.1"	-203.5"	-330.6"
TRAJ: 200 yds. zero	-1.5"	7.2"	0.0	-28.0"	-82.3"	-167.4"	-287.4"
TRAJ: 300 yds. zero	-1.5"	16.6"	18.7"	0.0	-44.9"	-120.8"	-231.3"
TRAJ: 400 yds. zero	-1.5"	27.8"	41.1"	33.7"	0.0	-64.6"	-164.0"
TRAJ: 500 yds. zero	-1.5"	40.7"	67.0"	72.5"	51.7"	0.0	-86.4"
TRAJ: 600 yds. zero	-1.5"	55.1"	95.8"	115.7"	109.3"	72.0"	0.0

30 CALIBER (.308" Dia.) 150 GRAIN SPIRE POINT
SECTIONAL DENSITY: .226 BALLISTIC COEFFICIENT: .338

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3188	2897	2625	2368	2126	1899
ENERGY (ft.-lbs.)	4079	3384	2795	2294	1867	1505	1201
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-8.0"	-19.1"	-36.5"	-61.6"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.1"	-15.3"	-31.7"	-55.8"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.4"	0.0	-8.5"	-23.1"	-45.5"
TRAJ: 400 yds. zero	-1.5"	4.8"	7.6"	6.4"	0.0	-12.6"	-32.8"
TRAJ: 500 yds. zero	-1.5"	7.3"	12.7"	13.9"	10.0"	0.0	-17.8"
TRAJ: 600 yds. zero	-1.5"	10.3"	18.6"	22.8"	21.9"	14.8"	0.0
VELOCITY (fps)	3400	3095	2810	2543	2291	2054	1831
ENERGY (ft.-lbs.)	3850	3190	2630	2154	1748	1404	1117
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.7"	-20.6"	-39.2"	-66.1"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.5"	-16.4"	-33.9"	-59.6"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.7"	0.0	-9.0"	-24.7"	-48.7"
TRAJ: 400 yds. zero	-1.5"	5.2"	8.2"	6.8"	0.0	-13.4"	-35.1"
TRAJ: 500 yds. zero	-1.5"	7.8"	13.5"	14.8"	10.7"	0.0	-19.0"
TRAJ: 600 yds. zero	-1.5"	11.0"	19.9"	24.3"	23.4"	15.8"	0.0
VELOCITY (fps)	3300	3002	2723	2461	2214	1981	1764
ENERGY (ft.-lbs.)	3626	3001	2469	2017	1632	1307	1036
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.4"	-22.3"	-42.2"	-71.0"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.9"	-17.5"	-36.3"	-63.9"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.9"	0.0	-9.7"	-26.5"	-52.2"
TRAJ: 400 yds. zero	-1.5"	5.6"	8.8"	7.3"	0.0	-14.4"	-37.6"
TRAJ: 500 yds. zero	-1.5"	8.4"	14.5"	15.9"	11.5"	0.0	-20.4"
TRAJ: 600 yds. zero	-1.5"	11.8"	21.3"	26.1"	25.1"	17.0"	0.0
VELOCITY (fps)	3200	2909	2636	2378	2136	1908	1696
ENERGY (ft.-lbs.)	3410	2817	2313	1884	1519	1212	958
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.3"	-24.1"	-45.5"	-76.6"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.3"	-18.8"	-39.0"	-68.7"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.2"	0.0	-10.4"	-28.4"	-56.0"
TRAJ: 400 yds. zero	-1.5"	6.0"	9.4"	7.8"	0.0	-15.4"	-40.5"
TRAJ: 500 yds. zero	-1.5"	9.1"	15.6"	17.0"	12.3"	0.0	-21.9"
TRAJ: 600 yds. zero	-1.5"	12.8"	22.9"	28.0"	27.0"	18.3"	0.0
VELOCITY (fps)	3100	2815	2548	2295	2058	1835	1630
ENERGY (ft.-lbs.)	3200	2639	2161	1755	1410	1121	884
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.2"	-26.1"	-49.2"	-82.7"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.8"	-20.3"	-42.0"	-74.0"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.5"	0.0	-11.2"	-30.6"	-60.4"
TRAJ: 400 yds. zero	-1.5"	6.5"	10.1"	8.4"	0.0	-16.6"	-43.6"
TRAJ: 500 yds. zero	-1.5"	9.8"	16.8"	18.3"	13.3"	0.0	-23.7"
TRAJ: 600 yds. zero	-1.5"	13.8"	24.7"	30.2"	29.1"	19.7"	0.0
VELOCITY (fps)	3000	2721	2459	2212	1979	1762	1564
ENERGY (ft.-lbs.)	2997	2466	2014	1630	1305	1034	814
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.2"	-28.3"	-53.3"	-89.6"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.4"	-21.9"	-45.3"	-80.0"
TRAJ: 300 yds. zero	-1.5"	4.1"	4.9"	0.0	-12.0"	-33.0"	-65.2"
TRAJ: 400 yds. zero	-1.5"	7.1"	10.9"	9.0"	0.0	-17.9"	-47.2"
TRAJ: 500 yds. zero	-1.5"	10.7"	18.1"	19.8"	14.4"	0.0	-25.6"
TRAJ: 600 yds. zero	-1.5"	14.9"	26.7"	32.6"	31.4"	21.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2627	2371	2129	1901	1690	1499
ENERGY (ft.-lbs.)	2801	2299	1872	1509	1204	951	748
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.3"	-30.8"	-57.9"	-97.3"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.0"	-23.7"	-49.0"	-86.6"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.3"	0.0	-13.0"	-35.7"	-70.7"
TRAJ: 400 yds. zero	-1.5"	7.7"	11.8"	9.8"	0.0	-19.4"	-51.1"
TRAJ: 500 yds. zero	-1.5"	11.6"	19.6"	21.4"	15.5"	0.0	-27.8"
TRAJ: 600 yds. zero	-1.5"	16.2"	28.9"	35.3"	34.1"	23.2"	0.0
VELOCITY (fps)	2800	2533	2282	2045	1823	1619	1435
ENERGY (ft.-lbs.)	2611	2137	1734	1393	1107	873	686
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.6"	-33.6"	-63.1"	-105.9"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.7"	-25.7"	-53.2"	-94.1"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.8"	0.0	-14.1"	-38.8"	-76.8"
TRAJ: 400 yds. zero	-1.5"	8.4"	12.8"	10.6"	0.0	-21.1"	-55.6"
TRAJ: 500 yds. zero	-1.5"	12.6"	21.3"	23.3"	16.9"	0.0	-30.3"
TRAJ: 600 yds. zero	-1.5"	17.7"	31.4"	38.4"	37.1"	25.2"	0.0
VELOCITY (fps)	2700	2439	2193	1962	1746	1549	1374
ENERGY (ft.-lbs.)	2428	1981	1602	1281	1015	799	629
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-16.0"	-36.7"	-68.9"	-115.6"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.4"	-28.0"	-57.9"	-102.6"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.3"	0.0	-15.4"	-42.2"	-83.7"
TRAJ: 400 yds. zero	-1.5"	9.2"	14.0"	11.5"	0.0	-23.0"	-60.6"
TRAJ: 500 yds. zero	-1.5"	13.8"	23.2"	25.3"	18.4"	0.0	-33.0"
TRAJ: 600 yds. zero	-1.5"	19.3"	34.2"	41.8"	40.4"	27.5"	0.0
VELOCITY (fps)	2600	2345	2104	1878	1669	1480	1315
ENERGY (ft.-lbs.)	2251	1831	1474	1175	928	730	576
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-17.6"	-40.2"	-75.4"	-126.6"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.3"	-30.5"	-63.3"	-112.1"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.9"	0.0	-16.8"	-46.1"	-91.4"
TRAJ: 400 yds. zero	-1.5"	10.1"	15.3"	12.6"	0.0	-25.1"	-66.3"
TRAJ: 500 yds. zero	-1.5"	15.1"	25.3"	27.7"	20.1"	0.0	-36.1"
TRAJ: 600 yds. zero	-1.5"	21.1"	37.4"	45.7"	44.2"	30.1"	0.0
VELOCITY (fps)	2500	2250	2015	1796	1594	1413	1260
ENERGY (ft.-lbs.)	2081	1687	1353	1074	846	665	528
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-19.4"	-44.2"	-82.8"	-139.0"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.3"	-33.4"	-69.3"	-122.8"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.5"	0.0	-18.4"	-50.5"	-100.2"
TRAJ: 400 yds. zero	-1.5"	11.1"	16.7"	13.8"	0.0	-27.6"	-72.6"
TRAJ: 500 yds. zero	-1.5"	16.6"	27.7"	30.3"	22.0"	0.0	-39.6"
TRAJ: 600 yds. zero	-1.5"	23.2"	40.9"	50.1"	48.4"	33.0"	0.0
VELOCITY (fps)	2400	2156	1927	1714	1520	1349	1208
ENERGY (ft.-lbs.)	1918	1548	1236	978	769	606	486
TRAJ: 100 yds. zero	-1.5"	0.0	-6.0"	-21.4"	-48.7"	-91.2"	-152.9"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-12.4"	-36.7"	-76.2"	-134.9"
TRAJ: 300 yds. zero	-1.5"	7.1"	8.3"	0.0	-20.2"	-55.5"	-110.1"
TRAJ: 400 yds. zero	-1.5"	12.2"	18.4"	15.1"	0.0	-30.3"	-79.8"
TRAJ: 500 yds. zero	-1.5"	18.2"	30.5"	33.3"	24.2"	0.0	-43.5"
TRAJ: 600 yds. zero	-1.5"	25.5"	45.0"	55.0"	53.2"	36.2"	0.0
VELOCITY (fps)	2300	2062	1839	1633	1448	1288	1160
ENERGY (ft.-lbs.)	1762	1416	1126	888	698	553	448
TRAJ: 100 yds. zero	-1.5"	0.0	-6.7"	-23.8"	-53.9"	-100.7"	-168.7"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-13.7"	-40.5"	-84.0"	-148.5"
TRAJ: 300 yds. zero	-1.5"	7.9"	9.1"	0.0	-22.2"	-61.1"	-121.1"
TRAJ: 400 yds. zero	-1.5"	13.5"	20.2"	16.7"	0.0	-33.4"	-87.8"
TRAJ: 500 yds. zero	-1.5"	20.1"	33.6"	36.7"	26.7"	0.0	-47.8"
TRAJ: 600 yds. zero	-1.5"	28.1"	49.5"	60.6"	58.5"	39.8"	0.0
VELOCITY (fps)	2200	1968	1752	1554	1379	1231	1117
ENERGY (ft.-lbs.)	1612	1290	1022	804	633	505	416
TRAJ: 100 yds. zero	-1.5"	0.0	-7.5"	-26.4"	-59.8"	-111.6"	-186.4"
TRAJ: 200 yds. zero	-1.5"	3.8"	0.0	-15.1"	-44.8"	-92.8"	-163.8"
TRAJ: 300 yds. zero	-1.5"	8.8"	10.1"	0.0	-24.6"	-67.5"	-133.6"
TRAJ: 400 yds. zero	-1.5"	14.9"	22.4"	18.4"	0.0	-36.8"	-96.7"
TRAJ: 500 yds. zero	-1.5"	22.3"	37.1"	40.5"	29.5"	0.0	-52.5"
TRAJ: 600 yds. zero	-1.5"	31.1"	54.6"	66.8"	64.5"	43.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2100	1874	1666	1477	1313	1179	1079
ENERGY (ft.-lbs.)	1469	1170	924	726	574	463	388
TRAJ: 100 yds. zero	-1.5"	0.0	-8.4"	-29.5"	-66.5"	-123.9"	-206.2"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-16.8"	-49.6"	-102.8"	-180.9"
TRAJ: 300 yds. zero	-1.5"	9.8"	11.2"	0.0	-27.2"	-74.7"	-147.3"
TRAJ: 400 yds. zero	-1.5"	16.6"	24.8"	20.4"	0.0	-40.7"	-106.5"
TRAJ: 500 yds. zero	-1.5"	24.8"	41.1"	44.8"	32.6"	0.0	-57.6"
TRAJ: 600 yds. zero	-1.5"	34.4"	60.3"	73.7"	71.0"	48.0"	0.0
VELOCITY (fps)	2000	1781	1581	1402	1250	1131	1045
ENERGY (ft.-lbs.)	1332	1057	832	655	521	426	364
TRAJ: 100 yds. zero	-1.5"	0.0	-9.5"	-33.0"	-74.2"	-137.8"	-228.4"
TRAJ: 200 yds. zero	-1.5"	4.8"	0.0	-18.7"	-55.2"	-114.1"	-199.9"
TRAJ: 300 yds. zero	-1.5"	11.0"	12.5"	0.0	-30.2"	-82.8"	-162.4"
TRAJ: 400 yds. zero	-1.5"	18.6"	27.6"	22.7"	0.0	-45.0"	-117.0"
TRAJ: 500 yds. zero	-1.5"	27.6"	45.6"	49.7"	36.0"	0.0	-63.0"
TRAJ: 600 yds. zero	-1.5"	38.1"	66.6"	81.2"	78.0"	52.5"	0.0
VELOCITY (fps)	1900	1689	1498	1330	1193	1089	1014
ENERGY (ft.-lbs.)	1202	950	747	589	474	395	343
TRAJ: 100 yds. zero	-1.5"	0.0	-10.7"	-37.0"	-83.1"	-153.6"	-252.9"
TRAJ: 200 yds. zero	-1.5"	5.4"	0.0	-20.9"	-61.6"	-126.7"	-220.7"
TRAJ: 300 yds. zero	-1.5"	12.3"	14.0"	0.0	-33.7"	-91.8"	-178.8"
TRAJ: 400 yds. zero	-1.5"	20.8"	30.8"	25.3"	0.0	-49.7"	-128.3"
TRAJ: 500 yds. zero	-1.5"	30.7"	50.7"	55.1"	39.8"	0.0	-68.6"
TRAJ: 600 yds. zero	-1.5"	42.1"	73.6"	89.4"	85.5"	57.2"	0.0
VELOCITY (fps)	1800	1598	1417	1262	1140	1052	986
ENERGY (ft.-lbs.)	1079	850	669	531	433	368	324
TRAJ: 100 yds. zero	-1.5"	0.0	-12.2"	-41.7"	-93.2"	-171.2"	-279.9"
TRAJ: 200 yds. zero	-1.5"	6.1"	0.0	-23.5"	-68.8"	-140.8"	-243.4"
TRAJ: 300 yds. zero	-1.5"	13.9"	15.6"	0.0	-37.5"	-101.7"	-196.4"
TRAJ: 400 yds. zero	-1.5"	23.3"	34.4"	28.1"	0.0	-54.7"	-140.1"
TRAJ: 500 yds. zero	-1.5"	34.2"	56.3"	61.0"	43.8"	0.0	-74.4"
TRAJ: 600 yds. zero	-1.5"	46.6"	81.1"	98.2"	93.4"	62.0"	0.0
VELOCITY (fps)	1700	1508	1339	1199	1094	1018	960
ENERGY (ft.-lbs.)	962	757	597	479	398	345	307
TRAJ: 100 yds. zero	-1.5"	0.0	-13.9"	-47.2"	-104.7"	-190.9"	-309.4"
TRAJ: 200 yds. zero	-1.5"	6.9"	0.0	-26.4"	-77.0"	-156.2"	-267.9"
TRAJ: 300 yds. zero	-1.5"	15.7"	17.6"	0.0	-41.8"	-112.2"	-215.1"
TRAJ: 400 yds. zero	-1.5"	26.2"	38.5"	31.3"	0.0	-60.0"	-152.4"
TRAJ: 500 yds. zero	-1.5"	38.2"	62.5"	67.3"	48.0"	0.0	-80.4"
TRAJ: 600 yds. zero	-1.5"	51.6"	89.3"	107.5"	101.6"	67.0"	0.0
VELOCITY (fps)	1600	1419	1264	1142	1052	987	935
ENERGY (ft.-lbs.)	853	670	532	434	369	324	291
TRAJ: 100 yds. zero	-1.5"	0.0	-15.8"	-53.4"	-117.6"	-212.6"	-341.8"
TRAJ: 200 yds. zero	-1.5"	7.9"	0.0	-29.7"	-86.0"	-173.0"	-294.4"
TRAJ: 300 yds. zero	-1.5"	17.8"	19.8"	0.0	-46.4"	-123.5"	-235.0"
TRAJ: 400 yds. zero	-1.5"	29.4"	43.0"	34.8"	0.0	-65.6"	-165.4"
TRAJ: 500 yds. zero	-1.5"	42.5"	69.2"	74.1"	52.5"	0.0	-86.7"
TRAJ: 600 yds. zero	-1.5"	57.0"	98.1"	117.5"	110.3"	72.3"	0.0

30 CALIBER (.308" Dia.) 150 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .226 BALLISTIC COEFFICIENT: .349

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3197	2915	2650	2400	2163	1941
ENERGY (ft.-lbs.)	4079	3404	2829	2338	1918	1558	1254
TRAJ: 100 yds. zero	-1.5"	0.0	-1.9"	-7.9"	-18.9"	-35.9"	-60.4"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.1"	-15.1"	-31.1"	-54.6"
TRAJ: 300 yds. zero	-1.5"	2.6"	3.4"	0.0	-8.3"	-22.7"	-44.5"
TRAJ: 400 yds. zero	-1.5"	4.7"	7.5"	6.2"	0.0	-12.3"	-32.0"
TRAJ: 500 yds. zero	-1.5"	7.2"	12.5"	13.6"	9.8"	0.0	-17.3"
TRAJ: 600 yds. zero	-1.5"	10.1"	18.2"	22.3"	21.4"	14.4"	0.0
VELOCITY (fps)	3400	3104	2828	2568	2322	2090	1872
ENERGY (ft.-lbs.)	3850	3209	2663	2195	1796	1455	1167
TRAJ: 100 yds. zero	-1.5"	0.0	-2.1"	-8.6"	-20.3"	-38.6"	-64.8"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.4"	-16.1"	-33.3"	-58.4"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.6"	0.0	-8.9"	-24.2"	-47.6"
TRAJ: 400 yds. zero	-1.5"	5.1"	8.1"	6.7"	0.0	-13.1"	-34.2"
TRAJ: 500 yds. zero	-1.5"	7.7"	13.3"	14.5"	10.5"	0.0	-18.5"
TRAJ: 600 yds. zero	-1.5"	10.8"	19.5"	23.8"	22.8"	15.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	3011	2740	2485	2244	2016	1803
ENERGY (ft.-lbs.)	3626	3019	2500	2057	1677	1354	1083
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.3"	-22.0"	-41.5"	-69.6"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.8"	-17.3"	-35.6"	-62.6"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.9"	0.0	-9.5"	-26.0"	-51.0"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.6"	7.1"	0.0	-14.1"	-36.7"
TRAJ: 500 yds. zero	-1.5"	8.3"	14.3"	15.6"	11.2"	0.0	-19.8"
TRAJ: 600 yds. zero	-1.5"	11.6"	20.9"	25.5"	24.5"	16.5"	0.0
VELOCITY (fps)	3200	2917	2652	2402	2166	1943	1735
ENERGY (ft.-lbs.)	3410	2834	2343	1921	1562	1257	1002
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.1"	-23.7"	-44.8"	-75.0"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.3"	-18.5"	-38.3"	-67.3"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.2"	0.0	-10.2"	-27.9"	-54.8"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.3"	7.7"	0.0	-15.1"	-39.4"
TRAJ: 500 yds. zero	-1.5"	9.0"	15.3"	16.7"	12.1"	0.0	-21.3"
TRAJ: 600 yds. zero	-1.5"	12.5"	22.4"	27.4"	26.3"	17.8"	0.0
VELOCITY (fps)	3100	2824	2564	2319	2087	1869	1667
ENERGY (ft.-lbs.)	3200	2655	2189	1790	1450	1163	925
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.0"	-25.7"	-48.4"	-81.1"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.7"	-20.0"	-41.2"	-72.4"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.5"	0.0	-11.0"	-30.0"	-59.0"
TRAJ: 400 yds. zero	-1.5"	6.4"	10.0"	8.2"	0.0	-16.2"	-42.5"
TRAJ: 500 yds. zero	-1.5"	9.7"	16.5"	18.0"	13.0"	0.0	-23.0"
TRAJ: 600 yds. zero	-1.5"	13.5"	24.1"	29.5"	28.3"	19.2"	0.0
VELOCITY (fps)	3000	2730	2475	2235	2008	1795	1600
ENERGY (ft.-lbs.)	2997	2482	2041	1663	1343	1073	852
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.0"	-27.9"	-52.4"	-87.8"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.3"	-21.5"	-44.5"	-78.2"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.9"	0.0	-11.8"	-32.3"	-63.7"
TRAJ: 400 yds. zero	-1.5"	7.0"	10.8"	8.9"	0.0	-17.5"	-45.9"
TRAJ: 500 yds. zero	-1.5"	10.5"	17.8"	19.4"	14.0"	0.0	-24.9"
TRAJ: 600 yds. zero	-1.5"	14.6"	26.1"	31.8"	30.6"	20.7"	0.0
VELOCITY (fps)	2900	2636	2386	2151	1929	1722	1533
ENERGY (ft.-lbs.)	2801	2314	1897	1541	1239	988	783
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.2"	-30.3"	-56.9"	-95.3"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.9"	-23.3"	-48.1"	-84.7"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.3"	0.0	-12.8"	-35.0"	-69.0"
TRAJ: 400 yds. zero	-1.5"	7.6"	11.7"	9.6"	0.0	-19.0"	-49.8"
TRAJ: 500 yds. zero	-1.5"	11.4"	19.2"	21.0"	15.2"	0.0	-27.0"
TRAJ: 600 yds. zero	-1.5"	15.9"	28.2"	34.5"	33.2"	22.5"	0.0
VELOCITY (fps)	2800	2542	2297	2067	1850	1650	1468
ENERGY (ft.-lbs.)	2611	2151	1758	1422	1140	906	718
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.4"	-33.1"	-62.0"	-103.7"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.6"	-25.3"	-52.2"	-92.0"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.7"	0.0	-13.9"	-38.0"	-74.9"
TRAJ: 400 yds. zero	-1.5"	8.3"	12.6"	10.4"	0.0	-20.6"	-54.1"
TRAJ: 500 yds. zero	-1.5"	12.4"	20.9"	22.8"	16.5"	0.0	-29.4"
TRAJ: 600 yds. zero	-1.5"	17.3"	30.7"	37.5"	36.1"	24.5"	0.0
VELOCITY (fps)	2700	2447	2208	1983	1772	1578	1405
ENERGY (ft.-lbs.)	2428	1994	1624	1309	1046	830	658
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-15.8"	-36.2"	-67.7"	-113.2"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.3"	-27.5"	-56.8"	-100.2"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.2"	0.0	-15.1"	-41.3"	-81.6"
TRAJ: 400 yds. zero	-1.5"	9.0"	13.8"	11.3"	0.0	-22.5"	-59.0"
TRAJ: 500 yds. zero	-1.5"	13.5"	22.7"	24.8"	18.0"	0.0	-32.0"
TRAJ: 600 yds. zero	-1.5"	18.9"	33.4"	40.8"	39.3"	26.7"	0.0
VELOCITY (fps)	2600	2353	2119	1899	1695	1508	1344
ENERGY (ft.-lbs.)	2251	1843	1495	1201	956	758	602
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-17.4"	-39.6"	-74.1"	-123.9"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.2"	-30.0"	-62.1"	-109.5"
TRAJ: 300 yds. zero	-1.5"	5.8"	6.8"	0.0	-16.5"	-45.1"	-89.2"
TRAJ: 400 yds. zero	-1.5"	9.9"	15.0"	12.4"	0.0	-24.5"	-64.5"
TRAJ: 500 yds. zero	-1.5"	14.8"	24.8"	27.1"	19.6"	0.0	-35.0"
TRAJ: 600 yds. zero	-1.5"	20.7"	36.5"	44.6"	43.0"	29.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2500	2258	2030	1816	1618	1440	1286
ENERGY (ft.-lbs.)	2081	1698	1372	1098	872	691	551
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.2"	-43.6"	-81.3"	-136.0"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.1"	-32.9"	-68.0"	-120.0"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.4"	0.0	-18.0"	-49.4"	-97.7"
TRAJ: 400 yds. zero	-1.5"	10.9"	16.4"	13.5"	0.0	-26.9"	-70.7"
TRAJ: 500 yds. zero	-1.5"	16.3"	27.2"	29.6"	21.5"	0.0	-38.4"
TRAJ: 600 yds. zero	-1.5"	22.7"	40.0"	48.8"	47.1"	32.0"	0.0
VELOCITY (fps)	2400	2164	1941	1733	1543	1375	1232
ENERGY (ft.-lbs.)	1918	1559	1255	1000	793	629	505
TRAJ: 100 yds. zero	-1.5"	0.0	-6.0"	-21.2"	-48.0"	-89.6"	-149.7"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-12.2"	-36.1"	-74.7"	-131.8"
TRAJ: 300 yds. zero	-1.5"	7.1"	8.2"	0.0	-19.8"	-54.3"	-107.3"
TRAJ: 400 yds. zero	-1.5"	12.0"	18.1"	14.8"	0.0	-29.5"	-77.6"
TRAJ: 500 yds. zero	-1.5"	17.9"	29.9"	32.6"	23.6"	0.0	-42.2"
TRAJ: 600 yds. zero	-1.5"	24.9"	43.9"	53.7"	51.7"	35.1"	0.0
VELOCITY (fps)	2300	2069	1853	1652	1470	1312	1182
ENERGY (ft.-lbs.)	1762	1426	1143	909	720	573	465
TRAJ: 100 yds. zero	-1.5"	0.0	-6.7"	-23.5"	-53.1"	-98.9"	-165.1"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-13.5"	-39.8"	-82.3"	-145.1"
TRAJ: 300 yds. zero	-1.5"	7.8"	9.0"	0.0	-21.8"	-59.8"	-118.1"
TRAJ: 400 yds. zero	-1.5"	13.3"	19.9"	16.4"	0.0	-32.5"	-85.4"
TRAJ: 500 yds. zero	-1.5"	19.8"	32.9"	35.9"	26.0"	0.0	-46.4"
TRAJ: 600 yds. zero	-1.5"	27.5"	48.4"	59.1"	57.0"	38.7"	0.0
VELOCITY (fps)	2200	1975	1765	1572	1399	1252	1136
ENERGY (ft.-lbs.)	1612	1299	1037	823	652	522	430
TRAJ: 100 yds. zero	-1.5"	0.0	-7.4"	-26.1"	-58.9"	-109.6"	-182.5"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-14.9"	-44.0"	-90.9"	-160.2"
TRAJ: 300 yds. zero	-1.5"	8.7"	10.0"	0.0	-24.1"	-66.1"	-130.3"
TRAJ: 400 yds. zero	-1.5"	14.7"	22.0"	18.1"	0.0	-35.9"	-94.1"
TRAJ: 500 yds. zero	-1.5"	21.9"	36.4"	39.6"	28.7"	0.0	-51.0"
TRAJ: 600 yds. zero	-1.5"	30.4"	53.4"	65.2"	62.8"	42.5"	0.0
VELOCITY (fps)	2100	1881	1678	1494	1332	1198	1095
ENERGY (ft.-lbs.)	1469	1179	938	743	591	478	400
TRAJ: 100 yds. zero	-1.5"	0.0	-8.4"	-29.1"	-65.5"	-121.7"	-202.1"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-16.6"	-48.8"	-100.8"	-177.0"
TRAJ: 300 yds. zero	-1.5"	9.7"	11.1"	0.0	-26.7"	-73.1"	-143.9"
TRAJ: 400 yds. zero	-1.5"	16.4"	24.4"	20.0"	0.0	-39.7"	-103.8"
TRAJ: 500 yds. zero	-1.5"	24.3"	40.3"	43.9"	31.8"	0.0	-56.1"
TRAJ: 600 yds. zero	-1.5"	33.7"	59.0"	71.9"	69.2"	46.8"	0.0
VELOCITY (fps)	2000	1788	1593	1418	1268	1148	1059
ENERGY (ft.-lbs.)	1332	1065	845	670	535	439	374
TRAJ: 100 yds. zero	-1.5"	0.0	-9.4"	-32.6"	-73.1"	-135.4"	-224.0"
TRAJ: 200 yds. zero	-1.5"	4.7"	0.0	-18.5"	-54.3"	-111.9"	-195.7"
TRAJ: 300 yds. zero	-1.5"	10.9"	12.3"	0.0	-29.7"	-81.1"	-158.8"
TRAJ: 400 yds. zero	-1.5"	18.3"	27.2"	22.3"	0.0	-44.0"	-114.3"
TRAJ: 500 yds. zero	-1.5"	27.1"	44.8"	48.7"	35.2"	0.0	-61.5"
TRAJ: 600 yds. zero	-1.5"	37.3"	65.2"	79.4"	76.2"	51.2"	0.0
VELOCITY (fps)	1900	1695	1509	1345	1208	1103	1027
ENERGY (ft.-lbs.)	1202	957	759	603	486	405	351
TRAJ: 100 yds. zero	-1.5"	0.0	-10.6"	-36.6"	-81.9"	-151.0"	-248.3"
TRAJ: 200 yds. zero	-1.5"	5.3"	0.0	-20.6"	-60.6"	-124.4"	-216.4"
TRAJ: 300 yds. zero	-1.5"	12.2"	13.8"	0.0	-33.1"	-90.0"	-175.1"
TRAJ: 400 yds. zero	-1.5"	20.5"	30.3"	24.8"	0.0	-48.7"	-125.5"
TRAJ: 500 yds. zero	-1.5"	30.2"	49.8"	54.0"	38.9"	0.0	-67.1"
TRAJ: 600 yds. zero	-1.5"	41.4"	72.1"	87.6"	83.7"	56.0"	0.0
VELOCITY (fps)	1800	1604	1428	1276	1154	1064	997
ENERGY (ft.-lbs.)	1079	857	679	542	443	377	331
TRAJ: 100 yds. zero	-1.5"	0.0	-12.1"	-41.3"	-91.9"	-168.5"	-275.2"
TRAJ: 200 yds. zero	-1.5"	6.0"	0.0	-23.2"	-67.7"	-138.4"	-239.0"
TRAJ: 300 yds. zero	-1.5"	13.8"	15.4"	0.0	-36.9"	-99.8"	-192.7"
TRAJ: 400 yds. zero	-1.5"	23.0"	33.9"	27.6"	0.0	-53.7"	-137.4"
TRAJ: 500 yds. zero	-1.5"	33.7"	55.3"	59.9"	43.0"	0.0	-73.0"
TRAJ: 600 yds. zero	-1.5"	45.9"	79.7"	96.4"	91.6"	60.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1513	1349	1211	1105	1028	970
ENERGY (ft.-lbs.)	962	763	606	488	407	352	313
TRAJ: 100 yds. zero	-1.5"	0.0	-13.7"	-46.6"	-103.3"	-188.1"	-304.7"
TRAJ: 200 yds. zero	-1.5"	6.9"	0.0	-26.0"	-75.8"	-153.8"	-263.5"
TRAJ: 300 yds. zero	-1.5"	15.5"	17.4"	0.0	-41.1"	-110.4"	-211.5"
TRAJ: 400 yds. zero	-1.5"	25.8"	37.9"	30.8"	0.0	-59.0"	-149.8"
TRAJ: 500 yds. zero	-1.5"	37.6"	61.5"	66.2"	47.2"	0.0	-79.0"
TRAJ: 600 yds. zero	-1.5"	50.8"	87.8"	105.7"	99.9"	65.8"	0.0
VELOCITY (fps)	1600	1424	1273	1152	1062	996	944
ENERGY (ft.-lbs.)	853	675	540	442	376	330	297
TRAJ: 100 yds. zero	-1.5"	0.0	-15.7"	-52.9"	-116.2"	-209.8"	-337.2"
TRAJ: 200 yds. zero	-1.5"	7.8"	0.0	-29.3"	-84.8"	-170.6"	-290.1"
TRAJ: 300 yds. zero	-1.5"	17.6"	19.6"	0.0	-45.7"	-121.7"	-231.4"
TRAJ: 400 yds. zero	-1.5"	29.0"	42.4"	34.3"	0.0	-64.6"	-162.9"
TRAJ: 500 yds. zero	-1.5"	42.0"	68.2"	73.0"	51.7"	0.0	-85.4"
TRAJ: 600 yds. zero	-1.5"	56.2"	96.7"	115.7"	108.6"	71.2"	0.0

30 CALIBER (.308" Dia.) 150 GRAIN ROUND NOSE
SECTIONAL DENSITY: .226 BALLISTIC COEFFICIENT: .186

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	3000	2746	2506	2278	2063	1859	1670
ENERGY (ft.-lbs.)	2997	2511	2091	1729	1417	1151	929
TRAJ: 50 yds. zero	-1.5"	0.0	0.3"	-0.7"	-3.4"	-8.2"	-15.5"
TRAJ: 100 yds. zero	-1.5"	-0.2"	0.0	-1.2"	-4.1"	-9.1"	-16.5"
TRAJ: 150 yds. zero	-1.5"	0.2"	0.8"	0.0	-2.5"	-7.0"	-14.1"
TRAJ: 200 yds. zero	-1.5"	0.9"	2.1"	1.9"	0.0	-3.9"	-10.4"
TRAJ: 250 yds. zero	-1.5"	1.6"	3.6"	4.2"	3.1"	0.0	-5.7"
TRAJ: 300 yds. zero	-1.5"	2.6"	5.5"	7.0"	6.9"	4.7"	0.0
VELOCITY (fps)	2900	2652	2417	2194	1982	1784	1601
ENERGY (ft.-lbs.)	2801	2342	1945	1602	1309	1060	854
TRAJ: 50 yds. zero	-1.5"	0.0	0.3"	-1.0"	-4.0"	-9.3"	-17.3"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.4"	-4.5"	-9.9"	-18.1"
TRAJ: 150 yds. zero	-1.5"	0.3"	0.9"	0.0	-2.7"	-7.7"	-15.3"
TRAJ: 200 yds. zero	-1.5"	1.0"	2.3"	2.0"	0.0	-4.3"	-11.3"
TRAJ: 250 yds. zero	-1.5"	1.9"	4.0"	4.6"	3.4"	0.0	-6.2"
TRAJ: 300 yds. zero	-1.5"	2.9"	6.0"	7.7"	7.5"	5.1"	0.0
VELOCITY (fps)	2800	2557	2327	2108	1902	1710	1533
ENERGY (ft.-lbs.)	2611	2177	1803	1480	1205	974	783
TRAJ: 50 yds. zero	-1.5"	0.0	0.2"	-1.3"	-4.7"	-10.5"	-19.3"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.5"	-5.0"	-10.9"	-19.8"
TRAJ: 150 yds. zero	-1.5"	0.4"	1.0"	0.0	-3.0"	-8.4"	-16.7"
TRAJ: 200 yds. zero	-1.5"	1.2"	2.5"	2.2"	0.0	-4.6"	-12.3"
TRAJ: 250 yds. zero	-1.5"	2.1"	4.4"	5.0"	3.7"	0.0	-6.7"
TRAJ: 300 yds. zero	-1.5"	3.2"	6.6"	8.4"	8.2"	5.6"	0.0
VELOCITY (fps)	2700	2462	2237	2023	1823	1636	1467
ENERGY (ft.-lbs.)	2428	2019	1666	1364	1106	892	716
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.6"	-5.4"	-11.9"	-21.6"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-1.7"	-5.6"	-12.0"	-21.8"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.1"	0.0	-3.3"	-9.2"	-18.3"
TRAJ: 200 yds. zero	-1.5"	1.4"	2.8"	2.5"	0.0	-5.1"	-13.4"
TRAJ: 250 yds. zero	-1.5"	2.4"	4.8"	5.5"	4.1"	0.0	-7.3"
TRAJ: 300 yds. zero	-1.5"	3.6"	7.3"	9.2"	9.0"	6.1"	0.0
VELOCITY (fps)	2600	2368	2147	1939	1744	1564	1402
ENERGY (ft.-lbs.)	2251	1867	1535	1252	1012	814	655
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.0"	-6.3"	-13.4"	-24.1"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.9"	-6.2"	-13.3"	-24.0"
TRAJ: 150 yds. zero	-1.5"	0.7"	1.3"	0.0	-3.6"	-10.1"	-20.1"
TRAJ: 200 yds. zero	-1.5"	1.6"	3.1"	2.7"	0.0	-5.6"	-14.7"
TRAJ: 250 yds. zero	-1.5"	2.7"	5.3"	6.0"	4.5"	0.0	-8.0"
TRAJ: 300 yds. zero	-1.5"	4.0"	8.0"	10.1"	9.8"	6.7"	0.0
VELOCITY (fps)	2500	2273	2057	1854	1665	1493	1340
ENERGY (ft.-lbs.)	2081	1720	1409	1145	924	742	598
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.4"	-7.2"	-15.2"	-27.0"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.2"	-6.8"	-14.7"	-26.5"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-4.0"	-11.1"	-22.1"
TRAJ: 200 yds. zero	-1.5"	1.8"	3.4"	3.0"	0.0	-6.1"	-16.2"
TRAJ: 250 yds. zero	-1.5"	3.0"	5.9"	6.7"	4.9"	0.0	-8.8"
TRAJ: 300 yds. zero	-1.5"	4.5"	8.8"	11.1"	10.8"	7.4"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2400	2178	1968	1771	1588	1424	1281
ENERGY (ft.-lbs.)	1918	1579	1289	1044	840	675	547
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-2.9"	-8.3"	-17.1"	-30.3"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.4"	-7.6"	-16.3"	-29.3"
TRAJ: 150 yds. zero	-1.5"	1.0"	1.6"	0.0	-4.4"	-12.3"	-24.4"
TRAJ: 200 yds. zero	-1.5"	2.1"	3.8"	3.3"	0.0	-6.8"	-17.8"
TRAJ: 250 yds. zero	-1.5"	3.4"	6.5"	7.4"	5.4"	0.0	-9.7"
TRAJ: 300 yds. zero	-1.5"	5.0"	9.8"	12.2"	11.9"	8.1"	0.0
VELOCITY (fps)	2300	2083	1879	1688	1513	1358	1226
ENERGY (ft.-lbs.)	1762	1445	1175	949	762	614	501
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.5"	-9.5"	-19.4"	-34.0"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.7"	-8.5"	-18.1"	-32.5"
TRAJ: 150 yds. zero	-1.5"	1.2"	1.8"	0.0	-4.9"	-13.6"	-27.0"
TRAJ: 200 yds. zero	-1.5"	2.4"	4.3"	3.7"	0.0	-7.5"	-19.7"
TRAJ: 250 yds. zero	-1.5"	3.9"	7.3"	8.1"	6.0"	0.0	-10.7"
TRAJ: 300 yds. zero	-1.5"	5.7"	10.8"	13.5"	13.1"	8.9"	0.0
VELOCITY (fps)	2200	1989	1790	1606	1440	1295	1175
ENERGY (ft.-lbs.)	1612	1317	1067	859	691	558	460
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.1"	-10.9"	-22.0"	-38.2"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.1"	-9.5"	-20.2"	-36.1"
TRAJ: 150 yds. zero	-1.5"	1.4"	2.1"	0.0	-5.4"	-15.1"	-29.9"
TRAJ: 200 yds. zero	-1.5"	2.7"	4.8"	4.1"	0.0	-8.3"	-21.8"
TRAJ: 250 yds. zero	-1.5"	4.4"	8.1"	9.0"	6.6"	0.0	-11.8"
TRAJ: 300 yds. zero	-1.5"	6.4"	12.0"	15.0"	14.5"	9.9"	0.0
VELOCITY (fps)	2100	1894	1702	1526	1370	1236	1130
ENERGY (ft.-lbs.)	1469	1195	965	776	625	509	425
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-4.9"	-12.6"	-24.9"	-43.0"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.5"	-10.7"	-22.6"	-40.2"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.3"	0.0	-6.1"	-16.8"	-33.2"
TRAJ: 200 yds. zero	-1.5"	3.1"	5.3"	4.5"	0.0	-9.2"	-24.1"
TRAJ: 250 yds. zero	-1.5"	5.0"	9.0"	10.1"	7.4"	0.0	-13.1"
TRAJ: 300 yds. zero	-1.5"	7.2"	13.4"	16.6"	16.1"	10.9"	0.0
VELOCITY (fps)	2000	1801	1616	1449	1302	1181	1089
ENERGY (ft.-lbs.)	1332	1080	870	699	565	465	395
TRAJ: 50 yds. zero	-1.5"	0.0	-1.2"	-5.7"	-14.4"	-28.2"	-48.3"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.9"	-12.0"	-25.3"	-44.7"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.6"	0.0	-6.8"	-18.7"	-36.9"
TRAJ: 200 yds. zero	-1.5"	3.6"	6.0"	5.1"	0.0	-10.2"	-26.7"
TRAJ: 250 yds. zero	-1.5"	5.6"	10.1"	11.2"	8.2"	0.0	-14.4"
TRAJ: 300 yds. zero	-1.5"	8.1"	14.9"	18.4"	17.8"	12.0"	0.0
VELOCITY (fps)	1900	1708	1531	1374	1239	1132	1052
ENERGY (ft.-lbs.)	1202	971	781	628	511	427	369
TRAJ: 50 yds. zero	-1.5"	0.0	-1.5"	-6.7"	-16.5"	-32.1"	-54.3"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.5"	-13.6"	-28.3"	-49.8"
TRAJ: 150 yds. zero	-1.5"	2.2"	3.0"	0.0	-7.6"	-20.9"	-40.9"
TRAJ: 200 yds. zero	-1.5"	4.1"	6.8"	5.7"	0.0	-11.4"	-29.5"
TRAJ: 250 yds. zero	-1.5"	6.4"	11.3"	12.5"	9.1"	0.0	-15.8"
TRAJ: 300 yds. zero	-1.5"	9.1"	16.6"	20.4"	19.7"	13.2"	0.0
VELOCITY (fps)	1800	1615	1448	1302	1181	1088	1020
ENERGY (ft.-lbs.)	1079	869	698	564	464	395	346
TRAJ: 50 yds. zero	-1.5"	0.0	-1.8"	-7.8"	-19.0"	-36.4"	-61.0"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-5.1"	-15.3"	-31.8"	-55.4"
TRAJ: 150 yds. zero	-1.5"	2.6"	3.4"	0.0	-8.5"	-23.3"	-45.3"
TRAJ: 200 yds. zero	-1.5"	4.7"	7.6"	6.4"	0.0	-12.6"	-32.5"
TRAJ: 250 yds. zero	-1.5"	7.3"	12.7"	14.0"	10.1"	0.0	-17.3"
TRAJ: 300 yds. zero	-1.5"	10.2"	18.5"	22.6"	21.7"	14.4"	0.0
VELOCITY (fps)	1700	1524	1368	1234	1128	1050	990
ENERGY (ft.-lbs.)	962	774	623	507	424	367	326
TRAJ: 50 yds. zero	-1.5"	0.0	-2.3"	-9.2"	-21.8"	-41.2"	-68.3"
TRAJ: 100 yds. zero	-1.5"	1.1"	0.0	-5.8"	-17.3"	-35.6"	-61.6"
TRAJ: 150 yds. zero	-1.5"	3.1"	3.9"	0.0	-9.6"	-25.9"	-50.0"
TRAJ: 200 yds. zero	-1.5"	5.4"	8.6"	7.2"	0.0	-14.0"	-35.6"
TRAJ: 250 yds. zero	-1.5"	8.2"	14.2"	15.6"	11.2"	0.0	-18.9"
TRAJ: 300 yds. zero	-1.5"	11.4"	20.5"	25.0"	23.8"	15.7"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1600	1434	1290	1172	1082	1015	962
ENERGY (ft.-lbs.)	853	685	554	457	390	343	308
TRAJ: 50 yds. zero	-1.5"	0.0	-2.7"	-10.7"	-25.0"	-46.6"	-76.4"
TRAJ: 100 yds. zero	-1.5"	1.4"	0.0	-6.6"	-19.5"	-39.8"	-68.2"
TRAJ: 150 yds. zero	-1.5"	3.6"	4.4"	0.0	-10.7"	-28.8"	-55.0"
TRAJ: 200 yds. zero	-1.5"	6.2"	9.8"	8.0"	0.0	-15.4"	-38.9"
TRAJ: 250 yds. zero	-1.5"	9.3"	15.9"	17.3"	12.3"	0.0	-20.5"
TRAJ: 300 yds. zero	-1.5"	12.7"	22.7"	27.5"	26.0"	17.1"	0.0

30 CALIBER (.308" Dia.) 150 GRAIN FULL METAL JACKET BOAT TAIL
SECTIONAL DENSITY: .226 BALLISTIC COEFFICIENT: .398

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3233	2983	2746	2521	2307	2104
ENERGY (ft.-lbs.)	4079	3481	2962	2511	2116	1773	1474
TRAJ: 100 yds. zero	-1.5"	0.0	-1.8"	-7.6"	-17.9"	-33.8"	-56.1"
TRAJ: 200 yds. zero	-1.5"	0.9"	0.0	-4.8"	-14.3"	-29.2"	-50.6"
TRAJ: 300 yds. zero	-1.5"	2.5"	3.2"	0.0	-7.8"	-21.1"	-41.0"
TRAJ: 400 yds. zero	-1.5"	4.5"	7.1"	5.9"	0.0	-11.3"	-29.2"
TRAJ: 500 yds. zero	-1.5"	6.8"	11.7"	12.7"	9.1"	0.0	-15.6"
TRAJ: 600 yds. zero	-1.5"	9.4"	16.9"	20.5"	19.5"	13.0"	0.0
VELOCITY (fps)	3400	3139	2894	2662	2441	2231	2032
ENERGY (ft.-lbs.)	3850	3282	2789	2360	1985	1658	1375
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.2"	-19.3"	-36.3"	-60.2"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.2"	-15.3"	-31.2"	-54.1"
TRAJ: 300 yds. zero	-1.5"	2.7"	3.4"	0.0	-8.4"	-22.6"	-43.8"
TRAJ: 400 yds. zero	-1.5"	4.8"	7.6"	6.3"	0.0	-12.1"	-31.2"
TRAJ: 500 yds. zero	-1.5"	7.3"	12.5"	13.5"	9.7"	0.0	-16.7"
TRAJ: 600 yds. zero	-1.5"	10.0"	18.0"	21.9"	20.8"	13.9"	0.0
VELOCITY (fps)	3300	3045	2805	2578	2361	2155	1959
ENERGY (ft.-lbs.)	3626	3089	2621	2212	1856	1546	1278
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-8.9"	-20.9"	-39.0"	-64.7"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.6"	-16.3"	-33.4"	-57.9"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.7"	0.0	-8.9"	-24.1"	-46.8"
TRAJ: 400 yds. zero	-1.5"	5.2"	8.2"	6.7"	0.0	-13.0"	-33.4"
TRAJ: 500 yds. zero	-1.5"	7.8"	13.4"	14.5"	10.4"	0.0	-17.9"
TRAJ: 600 yds. zero	-1.5"	10.8"	19.3"	23.4"	22.3"	14.9"	0.0
VELOCITY (fps)	3200	2951	2716	2493	2280	2078	1887
ENERGY (ft.-lbs.)	3410	2900	2457	2069	1732	1438	1186
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-9.7"	-22.5"	-42.1"	-69.6"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.0"	-17.5"	-35.8"	-62.2"
TRAJ: 300 yds. zero	-1.5"	3.2"	4.0"	0.0	-9.6"	-25.9"	-50.2"
TRAJ: 400 yds. zero	-1.5"	5.6"	8.8"	7.2"	0.0	-13.9"	-35.8"
TRAJ: 500 yds. zero	-1.5"	8.4"	14.3"	15.5"	11.1"	0.0	-19.2"
TRAJ: 600 yds. zero	-1.5"	11.6"	20.7"	25.1"	23.9"	16.0"	0.0
VELOCITY (fps)	3100	2857	2627	2408	2199	2001	1815
ENERGY (ft.-lbs.)	3200	2718	2297	1930	1611	1334	1096
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.6"	-24.4"	-45.4"	-75.2"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.4"	-18.9"	-38.5"	-66.9"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.3"	0.0	-10.3"	-27.8"	-54.0"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.4"	7.7"	0.0	-14.9"	-38.6"
TRAJ: 500 yds. zero	-1.5"	9.1"	15.4"	16.7"	11.9"	0.0	-20.6"
TRAJ: 600 yds. zero	-1.5"	12.5"	22.3"	27.0"	25.7"	17.2"	0.0
VELOCITY (fps)	3000	2762	2537	2322	2118	1924	1742
ENERGY (ft.-lbs.)	2997	2541	2143	1796	1494	1233	1011
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.5"	-26.5"	-49.2"	-81.3"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.9"	-20.4"	-41.5"	-72.1"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.6"	0.0	-11.1"	-30.0"	-58.2"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.2"	8.3"	0.0	-16.1"	-41.6"
TRAJ: 500 yds. zero	-1.5"	9.8"	16.6"	18.0"	12.9"	0.0	-22.3"
TRAJ: 600 yds. zero	-1.5"	13.6"	24.0"	29.1"	27.7"	18.6"	0.0
VELOCITY (fps)	2900	2667	2447	2236	2036	1848	1671
ENERGY (ft.-lbs.)	2801	2370	1993	1665	1381	1137	930
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.6"	-28.8"	-53.4"	-88.2"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.5"	-22.0"	-44.9"	-78.0"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.0"	0.0	-12.0"	-32.4"	-63.0"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.0"	9.0"	0.0	-17.4"	-45.0"
TRAJ: 500 yds. zero	-1.5"	10.7"	18.0"	19.4"	13.9"	0.0	-24.1"
TRAJ: 600 yds. zero	-1.5"	14.7"	26.0"	31.5"	30.0"	20.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2800	2573	2356	2150	1955	1771	1600
ENERGY (ft.-lbs.)	2611	2204	1849	1540	1273	1045	853
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-13.8"	-31.4"	-58.1"	-95.9"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.2"	-23.9"	-48.7"	-84.6"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.4"	0.0	-13.0"	-35.1"	-68.3"
TRAJ: 400 yds. zero	-1.5"	7.8"	11.9"	9.7"	0.0	-18.9"	-48.8"
TRAJ: 500 yds. zero	-1.5"	11.6"	19.5"	21.0"	15.1"	0.0	-26.2"
TRAJ: 600 yds. zero	-1.5"	16.0"	28.2"	34.2"	32.6"	21.8"	0.0
VELOCITY (fps)	2700	2478	2266	2064	1874	1695	1531
ENERGY (ft.-lbs.)	2428	2044	1710	1419	1169	957	781
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.1"	-34.3"	-63.4"	-104.6"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-8.9"	-25.9"	-52.9"	-92.1"
TRAJ: 300 yds. zero	-1.5"	5.0"	5.9"	0.0	-14.1"	-38.1"	-74.3"
TRAJ: 400 yds. zero	-1.5"	8.6"	13.0"	10.6"	0.0	-20.5"	-53.2"
TRAJ: 500 yds. zero	-1.5"	12.7"	21.2"	22.9"	16.4"	0.0	-28.6"
TRAJ: 600 yds. zero	-1.5"	17.4"	30.7"	37.2"	35.5"	23.8"	0.0
VELOCITY (fps)	2600	2382	2175	1979	1793	1621	1463
ENERGY (ft.-lbs.)	2251	1890	1576	1304	1071	875	713
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-16.6"	-37.6"	-69.3"	-114.4"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.7"	-28.3"	-57.7"	-100.5"
TRAJ: 300 yds. zero	-1.5"	5.5"	6.5"	0.0	-15.4"	-41.6"	-81.1"
TRAJ: 400 yds. zero	-1.5"	9.4"	14.1"	11.5"	0.0	-22.4"	-58.1"
TRAJ: 500 yds. zero	-1.5"	13.9"	23.1"	25.0"	17.9"	0.0	-31.2"
TRAJ: 600 yds. zero	-1.5"	19.1"	33.5"	40.6"	38.7"	26.0"	0.0
VELOCITY (fps)	2500	2287	2085	1893	1713	1547	1398
ENERGY (ft.-lbs.)	2081	1742	1447	1193	977	797	650
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-18.3"	-41.3"	-76.1"	-125.5"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.6"	-30.9"	-63.2"	-110.0"
TRAJ: 300 yds. zero	-1.5"	6.1"	7.1"	0.0	-16.8"	-45.5"	-88.8"
TRAJ: 400 yds. zero	-1.5"	10.3"	15.5"	12.6"	0.0	-24.5"	-63.6"
TRAJ: 500 yds. zero	-1.5"	15.2"	25.3"	27.3"	19.6"	0.0	-34.2"
TRAJ: 600 yds. zero	-1.5"	20.9"	36.7"	44.4"	42.4"	28.5"	0.0
VELOCITY (fps)	2400	2192	1994	1808	1634	1476	1335
ENERGY (ft.-lbs.)	1918	1600	1325	1089	890	725	593
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-20.3"	-45.5"	-83.7"	-138.1"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.6"	-34.0"	-69.3"	-120.8"
TRAJ: 300 yds. zero	-1.5"	6.8"	7.8"	0.0	-18.4"	-49.9"	-97.5"
TRAJ: 400 yds. zero	-1.5"	11.4"	17.0"	13.8"	0.0	-26.9"	-69.9"
TRAJ: 500 yds. zero	-1.5"	16.7"	27.7"	30.0"	21.5"	0.0	-37.6"
TRAJ: 600 yds. zero	-1.5"	23.0"	40.3"	48.8"	46.6"	31.3"	0.0
VELOCITY (fps)	2300	2097	1905	1724	1557	1406	1275
ENERGY (ft.-lbs.)	1762	1464	1208	990	807	659	541
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-22.5"	-50.3"	-92.4"	-152.3"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-12.8"	-37.4"	-76.4"	-133.0"
TRAJ: 300 yds. zero	-1.5"	7.5"	8.6"	0.0	-20.3"	-55.0"	-107.4"
TRAJ: 400 yds. zero	-1.5"	12.6"	18.7"	15.2"	0.0	-29.6"	-76.9"
TRAJ: 500 yds. zero	-1.5"	18.5"	30.6"	33.0"	23.7"	0.0	-41.4"
TRAJ: 600 yds. zero	-1.5"	25.4"	44.3"	53.7"	51.3"	34.5"	0.0
VELOCITY (fps)	2200	2002	1815	1641	1482	1340	1219
ENERGY (ft.-lbs.)	1612	1335	1097	897	731	598	495
TRAJ: 100 yds. zero	-1.5"	0.0	-7.2"	-25.0"	-55.7"	-102.4"	-168.5"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-14.2"	-41.3"	-84.4"	-146.9"
TRAJ: 300 yds. zero	-1.5"	8.3"	9.5"	0.0	-22.4"	-60.7"	-118.5"
TRAJ: 400 yds. zero	-1.5"	13.9"	20.7"	16.8"	0.0	-32.7"	-84.9"
TRAJ: 500 yds. zero	-1.5"	20.5"	33.8"	36.4"	26.2"	0.0	-45.7"
TRAJ: 600 yds. zero	-1.5"	28.1"	49.0"	59.3"	56.6"	38.0"	0.0
VELOCITY (fps)	2100	1907	1727	1560	1408	1277	1168
ENERGY (ft.-lbs.)	1469	1212	993	810	661	543	454
TRAJ: 100 yds. zero	-1.5"	0.0	-8.1"	-27.9"	-62.0"	-113.7"	-186.9"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-15.7"	-45.8"	-93.5"	-162.6"
TRAJ: 300 yds. zero	-1.5"	9.3"	10.5"	0.0	-24.8"	-67.3"	-131.2"
TRAJ: 400 yds. zero	-1.5"	15.5"	22.9"	18.6"	0.0	-36.2"	-93.9"
TRAJ: 500 yds. zero	-1.5"	22.7"	37.4"	40.4"	29.0"	0.0	-50.4"
TRAJ: 600 yds. zero	-1.5"	31.1"	54.2"	65.6"	62.6"	42.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2000	1813	1639	1480	1338	1218	1122
ENERGY (ft.-lbs.)	1332	1095	895	729	596	494	419
TRAJ: 100 yds. zero	-1.5"	0.0	-9.1"	-31.2"	-69.2"	-126.7"	-207.7"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-17.5"	-51.0"	-103.9"	-180.4"
TRAJ: 300 yds. zero	-1.5"	10.4"	11.7"	0.0	-27.6"	-74.7"	-145.3"
TRAJ: 400 yds. zero	-1.5"	17.3"	25.5"	20.7"	0.0	-40.2"	-103.9"
TRAJ: 500 yds. zero	-1.5"	25.3"	41.6"	44.8"	32.2"	0.0	-55.7"
TRAJ: 600 yds. zero	-1.5"	34.6"	60.1"	72.7"	69.3"	46.4"	0.0
VELOCITY (fps)	1900	1720	1553	1403	1272	1164	1081
ENERGY (ft.-lbs.)	1202	985	803	655	539	451	389
TRAJ: 100 yds. zero	-1.5"	0.0	-10.3"	-35.0"	-77.5"	-141.5"	-231.2"
TRAJ: 200 yds. zero	-1.5"	5.1"	0.0	-19.6"	-56.9"	-115.8"	-200.3"
TRAJ: 300 yds. zero	-1.5"	11.7"	13.1"	0.0	-30.8"	-83.1"	-161.1"
TRAJ: 400 yds. zero	-1.5"	19.4"	28.5"	23.1"	0.0	-44.7"	-115.0"
TRAJ: 500 yds. zero	-1.5"	28.3"	46.3"	49.9"	35.7"	0.0	-61.4"
TRAJ: 600 yds. zero	-1.5"	38.5"	66.8"	80.6"	76.6"	51.1"	0.0
VELOCITY (fps)	1800	1627	1469	1329	1210	1116	1045
ENERGY (ft.-lbs.)	1079	881	719	588	487	414	363
TRAJ: 100 yds. zero	-1.5"	0.0	-11.7"	-39.5"	-87.1"	-158.4"	-257.5"
TRAJ: 200 yds. zero	-1.5"	5.8"	0.0	-22.0"	-63.7"	-129.3"	-222.5"
TRAJ: 300 yds. zero	-1.5"	13.2"	14.7"	0.0	-34.4"	-92.6"	-178.5"
TRAJ: 400 yds. zero	-1.5"	21.8"	31.9"	25.8"	0.0	-49.6"	-126.9"
TRAJ: 500 yds. zero	-1.5"	31.7"	51.7"	55.6"	39.7"	0.0	-67.4"
TRAJ: 600 yds. zero	-1.5"	42.9"	74.2"	89.3"	84.6"	56.2"	0.0
VELOCITY (fps)	1700	1535	1387	1258	1153	1073	1012
ENERGY (ft.-lbs.)	962	785	640	527	443	383	341
TRAJ: 100 yds. zero	-1.5"	0.0	-13.3"	-44.7"	-98.1"	-177.6"	-286.8"
TRAJ: 200 yds. zero	-1.5"	6.6"	0.0	-24.8"	-71.5"	-144.4"	-246.9"
TRAJ: 300 yds. zero	-1.5"	14.9"	16.5"	0.0	-38.5"	-103.1"	-197.4"
TRAJ: 400 yds. zero	-1.5"	24.5"	35.8"	28.9"	0.0	-55.0"	-139.6"
TRAJ: 500 yds. zero	-1.5"	35.5"	57.7"	61.9"	44.0"	0.0	-73.7"
TRAJ: 600 yds. zero	-1.5"	47.8"	82.3"	98.7"	93.1"	61.4"	0.0
VELOCITY (fps)	1600	1445	1308	1193	1103	1035	982
ENERGY (ft.-lbs.)	853	695	569	474	405	356	321
TRAJ: 100 yds. zero	-1.5"	0.0	-15.2"	-50.8"	-110.7"	-199.1"	-319.2"
TRAJ: 200 yds. zero	-1.5"	7.6"	0.0	-28.0"	-80.4"	-161.1"	-273.6"
TRAJ: 300 yds. zero	-1.5"	16.9"	18.6"	0.0	-43.1"	-114.5"	-217.6"
TRAJ: 400 yds. zero	-1.5"	27.7"	40.2"	32.3"	0.0	-60.7"	-153.0"
TRAJ: 500 yds. zero	-1.5"	39.8"	64.5"	68.7"	48.5"	0.0	-80.2"
TRAJ: 600 yds. zero	-1.5"	53.2"	91.2"	108.8"	102.0"	66.8"	0.0

30 CALIBER (.308" Dia.) 165 GRAIN SPIRE POINT
SECTIONAL DENSITY: .248 BALLISTIC COEFFICIENT: .387

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	3038	2792	2559	2337	2126	1927
ENERGY (ft.-lbs.)	3989	3382	2856	2398	2001	1656	1360
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.0"	-21.1"	-39.5"	-65.6"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.6"	-16.5"	-33.8"	-58.8"
TRAJ: 300 yds. zero	-1.5"	3.0"	3.7"	0.0	-9.1"	-24.5"	-47.6"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.3"	6.8"	0.0	-13.2"	-34.0"
TRAJ: 500 yds. zero	-1.5"	7.9"	13.5"	14.7"	10.5"	0.0	-18.2"
TRAJ: 600 yds. zero	-1.5"	10.9"	19.6"	23.8"	22.7"	15.2"	0.0
VELOCITY (fps)	3200	2944	2703	2474	2257	2050	1855
ENERGY (ft.-lbs.)	3751	3176	2676	2243	1866	1540	1261
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-9.8"	-22.8"	-42.6"	-70.7"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.0"	-17.7"	-36.3"	-63.1"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.0"	0.0	-9.7"	-26.2"	-51.1"
TRAJ: 400 yds. zero	-1.5"	5.7"	8.9"	7.3"	0.0	-14.1"	-36.5"
TRAJ: 500 yds. zero	-1.5"	8.5"	14.5"	15.7"	11.3"	0.0	-19.6"
TRAJ: 600 yds. zero	-1.5"	11.8"	21.0"	25.5"	24.4"	16.3"	0.0
VELOCITY (fps)	3100	2850	2614	2389	2176	1974	1784
ENERGY (ft.-lbs.)	3520	2976	2503	2091	1735	1427	1166
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.7"	-24.7"	-46.0"	-76.3"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.5"	-19.1"	-39.0"	-67.9"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.3"	0.0	-10.4"	-28.2"	-55.0"
TRAJ: 400 yds. zero	-1.5"	6.2"	9.5"	7.8"	0.0	-15.2"	-39.3"
TRAJ: 500 yds. zero	-1.5"	9.2"	15.6"	16.9"	12.1"	0.0	-21.1"
TRAJ: 600 yds. zero	-1.5"	12.7"	22.6"	27.5"	26.2"	17.6"	0.0

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RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2756	2524	2304	2095	1898	1713
ENERGY (ft.-lbs.)	3297	2782	2334	1945	1608	1319	1075
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.6"	-26.8"	-49.8"	-82.6"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.0"	-20.6"	-42.1"	-73.3"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.7"	0.0	-11.2"	-30.4"	-59.3"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.3"	8.4"	0.0	-16.4"	-42.4"
TRAJ: 500 yds. zero	-1.5"	10.0"	16.8"	18.2"	13.1"	0.0	-22.8"
TRAJ: 600 yds. zero	-1.5"	13.8"	24.4"	29.6"	28.3"	19.0"	0.0
VELOCITY (fps)	2900	2661	2434	2219	2014	1822	1642
ENERGY (ft.-lbs.)	3081	2594	2171	1803	1486	1216	988
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.7"	-29.1"	-54.1"	-89.6"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.6"	-22.3"	-45.5"	-79.3"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.1"	0.0	-12.1"	-32.9"	-64.1"
TRAJ: 400 yds. zero	-1.5"	7.3"	11.1"	9.1"	0.0	-17.7"	-45.9"
TRAJ: 500 yds. zero	-1.5"	10.8"	18.2"	19.7"	14.2"	0.0	-24.7"
TRAJ: 600 yds. zero	-1.5"	14.9"	26.4"	32.1"	30.6"	20.6"	0.0
VELOCITY (fps)	2800	2566	2344	2133	1934	1746	1573
ENERGY (ft.-lbs.)	2872	2412	2013	1667	1369	1117	906
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-13.9"	-31.7"	-58.8"	-97.4"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.2"	-24.1"	-49.4"	-86.1"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.5"	0.0	-13.2"	-35.6"	-69.6"
TRAJ: 400 yds. zero	-1.5"	7.9"	12.1"	9.9"	0.0	-19.2"	-49.9"
TRAJ: 500 yds. zero	-1.5"	11.8"	19.7"	21.4"	15.4"	0.0	-26.8"
TRAJ: 600 yds. zero	-1.5"	16.2"	28.7"	34.8"	33.2"	22.3"	0.0
VELOCITY (fps)	2700	2471	2254	2048	1853	1671	1505
ENERGY (ft.-lbs.)	2670	2237	1861	1536	1258	1023	829
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.3"	-34.7"	-64.2"	-106.3"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.0"	-26.2"	-53.7"	-93.7"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.0"	0.0	-14.3"	-38.8"	-75.7"
TRAJ: 400 yds. zero	-1.5"	8.7"	13.1"	10.7"	0.0	-20.9"	-54.3"
TRAJ: 500 yds. zero	-1.5"	12.8"	21.5"	23.3"	16.7"	0.0	-29.2"
TRAJ: 600 yds. zero	-1.5"	17.7"	31.2"	37.9"	36.2"	24.4"	0.0
VELOCITY (fps)	2600	2376	2164	1962	1773	1597	1438
ENERGY (ft.-lbs.)	2476	2069	1715	1410	1151	935	758
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-16.8"	-38.0"	-70.3"	-116.3"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.8"	-28.6"	-58.6"	-102.2"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.5"	0.0	-15.6"	-42.3"	-82.7"
TRAJ: 400 yds. zero	-1.5"	9.5"	14.3"	11.7"	0.0	-22.8"	-59.3"
TRAJ: 500 yds. zero	-1.5"	14.1"	23.4"	25.4"	18.2"	0.0	-31.9"
TRAJ: 600 yds. zero	-1.5"	19.4"	34.1"	41.3"	39.5"	26.6"	0.0
VELOCITY (fps)	2500	2281	2074	1877	1694	1525	1374
ENERGY (ft.-lbs.)	2289	1906	1575	1291	1051	852	691
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-18.5"	-41.7"	-77.1"	-127.5"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.7"	-31.3"	-64.1"	-111.9"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.1"	0.0	-17.0"	-46.3"	-90.5"
TRAJ: 400 yds. zero	-1.5"	10.4"	15.7"	12.8"	0.0	-25.0"	-65.0"
TRAJ: 500 yds. zero	-1.5"	15.4"	25.6"	27.8"	20.0"	0.0	-35.0"
TRAJ: 600 yds. zero	-1.5"	21.3"	37.3"	45.3"	43.3"	29.2"	0.0
VELOCITY (fps)	2400	2186	1984	1793	1616	1454	1312
ENERGY (ft.-lbs.)	2110	1751	1441	1177	956	775	631
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-20.5"	-46.0"	-84.9"	-140.3"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.8"	-34.4"	-70.4"	-122.9"
TRAJ: 300 yds. zero	-1.5"	6.8"	7.8"	0.0	-18.7"	-50.8"	-99.4"
TRAJ: 400 yds. zero	-1.5"	11.5"	17.2"	14.0"	0.0	-27.4"	-71.4"
TRAJ: 500 yds. zero	-1.5"	17.0"	28.2"	30.5"	21.9"	0.0	-38.5"
TRAJ: 600 yds. zero	-1.5"	23.4"	41.0"	49.7"	47.6"	32.1"	0.0
VELOCITY (fps)	2300	2091	1894	1709	1539	1386	1255
ENERGY (ft.-lbs.)	1938	1602	1314	1070	868	704	577
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-22.7"	-50.8"	-93.7"	-154.8"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.0"	-37.9"	-77.5"	-135.4"
TRAJ: 300 yds. zero	-1.5"	7.6"	8.6"	0.0	-20.6"	-55.9"	-109.5"
TRAJ: 400 yds. zero	-1.5"	12.7"	18.9"	15.4"	0.0	-30.2"	-78.6"
TRAJ: 500 yds. zero	-1.5"	18.7"	31.0"	33.6"	24.2"	0.0	-42.4"
TRAJ: 600 yds. zero	-1.5"	25.8"	45.1"	54.7"	52.4"	35.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2200	1997	1805	1627	1465	1321	1201
ENERGY (ft.-lbs.)	1773	1460	1193	969	786	639	528
TRAJ: 100 yds. zero	-1.5"	0.0	-7.2"	-25.2"	-56.4"	-103.8"	-171.3"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-14.3"	-41.9"	-85.7"	-149.5"
TRAJ: 300 yds. zero	-1.5"	8.4"	9.6"	0.0	-22.7"	-61.8"	-120.8"
TRAJ: 400 yds. zero	-1.5"	14.1"	20.9"	17.1"	0.0	-33.3"	-86.7"
TRAJ: 500 yds. zero	-1.5"	20.8"	34.3"	37.1"	26.7"	0.0	-46.7"
TRAJ: 600 yds. zero	-1.5"	28.5"	49.8"	60.4"	57.8"	38.9"	0.0
VELOCITY (fps)	2100	1902	1717	1546	1392	1260	1152
ENERGY (ft.-lbs.)	1615	1325	1080	876	710	581	486
TRAJ: 100 yds. zero	-1.5"	0.0	-8.1"	-28.1"	-62.7"	-115.3"	-189.9"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-15.9"	-46.4"	-94.9"	-165.5"
TRAJ: 300 yds. zero	-1.5"	9.4"	10.6"	0.0	-25.2"	-68.4"	-133.7"
TRAJ: 400 yds. zero	-1.5"	15.7"	23.2"	18.9"	0.0	-36.9"	-95.9"
TRAJ: 500 yds. zero	-1.5"	23.1"	38.0"	41.1"	29.5"	0.0	-51.6"
TRAJ: 600 yds. zero	-1.5"	31.6"	55.2"	66.8"	63.9"	43.0"	0.0
VELOCITY (fps)	2000	1808	1630	1467	1324	1203	1108
ENERGY (ft.-lbs.)	1465	1198	973	789	642	530	450
TRAJ: 100 yds. zero	-1.5"	0.0	-9.2"	-31.5"	-70.0"	-128.4"	-211.0"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-17.7"	-51.6"	-105.5"	-183.5"
TRAJ: 300 yds. zero	-1.5"	10.5"	11.8"	0.0	-28.0"	-76.0"	-148.0"
TRAJ: 400 yds. zero	-1.5"	17.5"	25.8"	21.0"	0.0	-41.0"	-106.0"
TRAJ: 500 yds. zero	-1.5"	25.7"	42.2"	45.6"	32.8"	0.0	-56.9"
TRAJ: 600 yds. zero	-1.5"	35.2"	61.2"	74.0"	70.7"	47.4"	0.0
VELOCITY (fps)	1900	1715	1544	1391	1258	1151	1069
ENERGY (ft.-lbs.)	1322	1077	873	709	580	485	419
TRAJ: 100 yds. zero	-1.5"	0.0	-10.4"	-35.3"	-78.4"	-143.4"	-234.7"
TRAJ: 200 yds. zero	-1.5"	5.2"	0.0	-19.8"	-57.6"	-117.5"	-203.6"
TRAJ: 300 yds. zero	-1.5"	11.8"	13.2"	0.0	-31.2"	-84.5"	-164.0"
TRAJ: 400 yds. zero	-1.5"	19.6"	28.8"	23.4"	0.0	-45.5"	-117.1"
TRAJ: 500 yds. zero	-1.5"	28.7"	47.0"	50.7"	36.4"	0.0	-62.6"
TRAJ: 600 yds. zero	-1.5"	39.1"	67.9"	82.0"	78.1"	52.1"	0.0
VELOCITY (fps)	1800	1622	1460	1318	1198	1104	1034
ENERGY (ft.-lbs.)	1187	964	781	636	526	447	392
TRAJ: 100 yds. zero	-1.5"	0.0	-11.8"	-39.9"	-88.0"	-160.5"	-261.1"
TRAJ: 200 yds. zero	-1.5"	5.9"	0.0	-22.2"	-64.5"	-131.1"	-225.9"
TRAJ: 300 yds. zero	-1.5"	13.3"	14.8"	0.0	-34.9"	-94.1"	-181.4"
TRAJ: 400 yds. zero	-1.5"	22.0"	32.3"	26.2"	0.0	-50.4"	-129.1"
TRAJ: 500 yds. zero	-1.5"	32.1"	52.4"	56.4"	40.3"	0.0	-68.6"
TRAJ: 600 yds. zero	-1.5"	43.5"	75.3"	90.7"	86.0"	57.1"	0.0
VELOCITY (fps)	1700	1531	1379	1248	1143	1063	1003
ENERGY (ft.-lbs.)	1059	858	697	571	478	414	368
TRAJ: 100 yds. zero	-1.5"	0.0	-13.4"	-45.1"	-99.1"	-179.7"	-290.5"
TRAJ: 200 yds. zero	-1.5"	6.7"	0.0	-25.0"	-72.4"	-146.3"	-250.3"
TRAJ: 300 yds. zero	-1.5"	15.0"	16.7"	0.0	-39.0"	-104.6"	-200.3"
TRAJ: 400 yds. zero	-1.5"	24.8"	36.2"	29.3"	0.0	-55.8"	-141.7"
TRAJ: 500 yds. zero	-1.5"	35.9"	58.5"	62.7"	44.6"	0.0	-74.8"
TRAJ: 600 yds. zero	-1.5"	48.4"	83.4"	100.1"	94.5"	62.3"	0.0
VELOCITY (fps)	1600	1440	1300	1184	1094	1026	974
ENERGY (ft.-lbs.)	938	760	620	514	438	386	347
TRAJ: 100 yds. zero	-1.5"	0.0	-15.3"	-51.2"	-111.9"	-201.3"	-322.9"
TRAJ: 200 yds. zero	-1.5"	7.6"	0.0	-28.2"	-81.3"	-163.1"	-277.0"
TRAJ: 300 yds. zero	-1.5"	17.1"	18.8"	0.0	-43.6"	-116.0"	-220.5"
TRAJ: 400 yds. zero	-1.5"	28.0"	40.6"	32.7"	0.0	-61.5"	-155.1"
TRAJ: 500 yds. zero	-1.5"	40.3"	65.2"	69.6"	49.2"	0.0	-81.3"
TRAJ: 600 yds. zero	-1.5"	53.8"	92.3"	110.3"	103.4"	67.8"	0.0
VELOCITY (fps)	1500	1352	1226	1126	1050	993	946
ENERGY (ft.-lbs.)	824	670	551	464	404	361	328
TRAJ: 100 yds. zero	-1.5"	0.0	-17.6"	-58.2"	-126.2"	-225.3"	-358.5"
TRAJ: 200 yds. zero	-1.5"	8.8"	0.0	-31.9"	-91.1"	-181.4"	-305.8"
TRAJ: 300 yds. zero	-1.5"	19.4"	21.3"	0.0	-48.6"	-128.2"	-242.0"
TRAJ: 400 yds. zero	-1.5"	31.6"	45.6"	36.4"	0.0	-67.5"	-169.2"
TRAJ: 500 yds. zero	-1.5"	45.1"	72.6"	76.9"	54.0"	0.0	-88.2"
TRAJ: 600 yds. zero	-1.5"	59.8"	101.9"	121.0"	112.8"	73.5"	0.0

Hornady
HANDBOOK

30 CALIBER (.308" Dia.) 165 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .248 BALLISTIC COEFFICIENT: .435

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	3067	2845	2635	2433	2241	2058
ENERGY (ft.-lbs.)	3989	3445	2965	2543	2169	1840	1551
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-8.7"	-20.2"	-37.6"	-61.9"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.4"	-15.8"	-32.1"	-55.3"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.6"	0.0	-8.6"	-23.1"	-44.5"
TRAJ: 400 yds. zero	-1.5"	5.1"	7.9"	6.5"	0.0	-12.3"	-31.6"
TRAJ: 500 yds. zero	-1.5"	7.5"	12.8"	13.9"	9.9"	0.0	-16.8"
TRAJ: 600 yds. zero	-1.5"	10.3"	18.4"	22.3"	21.1"	14.0"	0.0
VELOCITY (fps)	3200	2972	2755	2549	2351	2163	1983
ENERGY (ft.-lbs.)	3751	3235	2781	2380	2025	1714	1441
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.5"	-21.9"	-40.5"	-66.6"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.8"	-17.0"	-34.4"	-59.3"
TRAJ: 300 yds. zero	-1.5"	3.2"	3.9"	0.0	-9.2"	-24.8"	-47.7"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.5"	6.9"	0.0	-13.2"	-33.9"
TRAJ: 500 yds. zero	-1.5"	8.1"	13.8"	14.9"	10.6"	0.0	-18.0"
TRAJ: 600 yds. zero	-1.5"	11.1"	19.8"	23.9"	22.6"	15.0"	0.0
VELOCITY (fps)	3100	2877	2665	2462	2269	2084	1908
ENERGY (ft.-lbs.)	3520	3032	2601	2221	1886	1591	1334
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.3"	-23.7"	-43.8"	-71.9"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.3"	-18.2"	-37.0"	-63.8"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.2"	0.0	-9.9"	-26.6"	-51.3"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.1"	7.4"	0.0	-14.2"	-36.4"
TRAJ: 500 yds. zero	-1.5"	8.8"	14.8"	15.9"	11.4"	0.0	-19.4"
TRAJ: 600 yds. zero	-1.5"	12.0"	21.3"	25.6"	24.3"	16.1"	0.0
VELOCITY (fps)	3000	2782	2574	2376	2186	2005	1834
ENERGY (ft.-lbs.)	3297	2835	2428	2068	1751	1473	1232
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.2"	-25.7"	-47.4"	-77.7"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.8"	-19.7"	-39.9"	-68.8"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.5"	0.0	-10.7"	-28.6"	-55.2"
TRAJ: 400 yds. zero	-1.5"	6.4"	9.8"	8.0"	0.0	-15.3"	-39.2"
TRAJ: 500 yds. zero	-1.5"	9.5"	16.0"	17.2"	12.2"	0.0	-20.9"
TRAJ: 600 yds. zero	-1.5"	13.0"	22.9"	27.6"	26.2"	17.4"	0.0
VELOCITY (fps)	2900	2687	2483	2289	2103	1926	1759
ENERGY (ft.-lbs.)	3081	2644	2259	1919	1620	1359	1134
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.3"	-27.9"	-51.4"	-84.3"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.3"	-21.3"	-43.1"	-74.3"
TRAJ: 300 yds. zero	-1.5"	4.1"	4.9"	0.0	-11.5"	-30.9"	-59.7"
TRAJ: 400 yds. zero	-1.5"	7.0"	10.6"	8.6"	0.0	-16.5"	-42.4"
TRAJ: 500 yds. zero	-1.5"	10.3"	17.2"	18.5"	13.2"	0.0	-22.6"
TRAJ: 600 yds. zero	-1.5"	14.0"	24.8"	29.8"	28.3"	18.8"	0.0
VELOCITY (fps)	2800	2591	2392	2202	2020	1848	1686
ENERGY (ft.-lbs.)	2872	2460	2096	1776	1495	1251	1041
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-13.5"	-30.4"	-55.9"	-91.6"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.9"	-23.0"	-46.7"	-80.6"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.3"	0.0	-12.5"	-33.5"	-64.7"
TRAJ: 400 yds. zero	-1.5"	7.6"	11.5"	9.4"	0.0	-17.9"	-46.0"
TRAJ: 500 yds. zero	-1.5"	11.2"	18.7"	20.1"	14.3"	0.0	-24.5"
TRAJ: 600 yds. zero	-1.5"	15.3"	26.9"	32.3"	30.7"	20.4"	0.0
VELOCITY (fps)	2700	2496	2301	2115	1937	1770	1613
ENERGY (ft.-lbs.)	2670	2282	1940	1638	1375	1147	953
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-14.8"	-33.2"	-61.0"	-99.8"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.6"	-25.0"	-50.7"	-87.6"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.7"	0.0	-13.5"	-36.4"	-70.3"
TRAJ: 400 yds. zero	-1.5"	8.3"	12.5"	10.2"	0.0	-19.4"	-50.0"
TRAJ: 500 yds. zero	-1.5"	12.2"	20.3"	21.8"	15.6"	0.0	-26.7"
TRAJ: 600 yds. zero	-1.5"	16.6"	29.2"	35.2"	33.3"	22.2"	0.0
VELOCITY (fps)	2600	2400	2210	2028	1855	1692	1542
ENERGY (ft.-lbs.)	2476	2111	1789	1506	1260	1049	870
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.2"	-36.4"	-66.7"	-109.1"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.4"	-27.3"	-55.3"	-95.5"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.3"	0.0	-14.7"	-39.6"	-76.7"
TRAJ: 400 yds. zero	-1.5"	9.1"	13.6"	11.1"	0.0	-21.2"	-54.6"
TRAJ: 500 yds. zero	-1.5"	13.3"	22.1"	23.8"	17.0"	0.0	-29.1"
TRAJ: 600 yds. zero	-1.5"	18.2"	31.8"	38.3"	36.4"	24.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2500	2305	2118	1941	1773	1616	1472
ENERGY (ft.-lbs.)	2289	1946	1644	1380	1151	957	793
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-17.9"	-39.9"	-73.1"	-119.7"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.3"	-29.8"	-60.5"	-104.5"
TRAJ: 300 yds. zero	-1.5"	6.0"	6.9"	0.0	-16.1"	-43.3"	-83.9"
TRAJ: 400 yds. zero	-1.5"	10.0"	14.9"	12.1"	0.0	-23.2"	-59.7"
TRAJ: 500 yds. zero	-1.5"	14.6"	24.2"	26.0"	18.5"	0.0	-31.9"
TRAJ: 600 yds. zero	-1.5"	19.9"	34.8"	42.0"	39.8"	26.6"	0.0
VELOCITY (fps)	2400	2209	2027	1855	1692	1541	1404
ENERGY (ft.-lbs.)	2110	1788	1505	1260	1049	870	722
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-19.8"	-44.0"	-80.4"	-131.6"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.3"	-32.7"	-66.3"	-114.7"
TRAJ: 300 yds. zero	-1.5"	6.6"	7.5"	0.0	-17.7"	-47.5"	-92.1"
TRAJ: 400 yds. zero	-1.5"	11.0"	16.4"	13.2"	0.0	-25.4"	-65.6"
TRAJ: 500 yds. zero	-1.5"	16.1"	26.5"	28.5"	20.3"	0.0	-35.1"
TRAJ: 600 yds. zero	-1.5"	21.9"	38.2"	46.0"	43.7"	29.2"	0.0
VELOCITY (fps)	2300	2114	1936	1769	1612	1468	1339
ENERGY (ft.-lbs.)	1938	1637	1374	1146	952	790	657
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-21.9"	-48.6"	-88.8"	-145.1"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.4"	-36.0"	-73.0"	-126.2"
TRAJ: 300 yds. zero	-1.5"	7.3"	8.3"	0.0	-19.4"	-52.3"	-101.4"
TRAJ: 400 yds. zero	-1.5"	12.2"	18.0"	14.6"	0.0	-28.0"	-72.2"
TRAJ: 500 yds. zero	-1.5"	17.8"	29.2"	31.4"	22.4"	0.0	-38.6"
TRAJ: 600 yds. zero	-1.5"	24.2"	42.1"	50.7"	48.1"	32.2"	0.0
VELOCITY (fps)	2200	2018	1846	1684	1534	1398	1278
ENERGY (ft.-lbs.)	1773	1492	1248	1039	862	716	598
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-24.3"	-53.9"	-98.3"	-160.6"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.8"	-39.8"	-80.7"	-139.4"
TRAJ: 300 yds. zero	-1.5"	8.1"	9.2"	0.0	-21.5"	-57.8"	-111.9"
TRAJ: 400 yds. zero	-1.5"	13.5"	19.9"	16.1"	0.0	-30.9"	-79.7"
TRAJ: 500 yds. zero	-1.5"	19.7"	32.3"	34.7"	24.8"	0.0	-42.6"
TRAJ: 600 yds. zero	-1.5"	26.8"	46.5"	56.0"	53.2"	35.5"	0.0
VELOCITY (fps)	2100	1923	1757	1601	1458	1330	1220
ENERGY (ft.-lbs.)	1615	1355	1130	939	779	648	545
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-27.1"	-60.0"	-109.2"	-178.2"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-15.3"	-44.1"	-89.4"	-154.4"
TRAJ: 300 yds. zero	-1.5"	9.0"	10.2"	0.0	-23.8"	-64.0"	-123.9"
TRAJ: 400 yds. zero	-1.5"	15.0"	22.1"	17.8"	0.0	-34.2"	-88.2"
TRAJ: 500 yds. zero	-1.5"	21.8"	35.8"	38.4"	27.4"	0.0	-47.1"
TRAJ: 600 yds. zero	-1.5"	29.7"	51.5"	62.0"	58.8"	39.3"	0.0
VELOCITY (fps)	2000	1829	1668	1519	1384	1266	1168
ENERGY (ft.-lbs.)	1465	1225	1019	845	702	587	499
TRAJ: 100 yds. zero	-1.5"	0.0	-8.9"	-30.4"	-66.9"	-121.7"	-198.2"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-17.0"	-49.1"	-99.4"	-171.5"
TRAJ: 300 yds. zero	-1.5"	10.1"	11.3"	0.0	-26.4"	-71.1"	-137.5"
TRAJ: 400 yds. zero	-1.5"	16.7"	24.5"	19.8"	0.0	-38.0"	-97.8"
TRAJ: 500 yds. zero	-1.5"	24.3"	39.8"	42.6"	30.4"	0.0	-52.2"
TRAJ: 600 yds. zero	-1.5"	33.0"	57.2"	68.7"	65.2"	43.5"	0.0
VELOCITY (fps)	1900	1735	1580	1439	1314	1207	1120
ENERGY (ft.-lbs.)	1322	1102	915	759	632	533	460
TRAJ: 100 yds. zero	-1.5"	0.0	-10.1"	-34.1"	-75.0"	-136.0"	-221.0"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-19.0"	-54.8"	-110.8"	-190.7"
TRAJ: 300 yds. zero	-1.5"	11.4"	12.7"	0.0	-29.5"	-79.2"	-152.8"
TRAJ: 400 yds. zero	-1.5"	18.7"	27.4"	22.1"	0.0	-42.3"	-108.5"
TRAJ: 500 yds. zero	-1.5"	27.2"	44.3"	47.5"	33.9"	0.0	-57.8"
TRAJ: 600 yds. zero	-1.5"	36.8"	63.6"	76.4"	72.4"	48.1"	0.0
VELOCITY (fps)	1800	1641	1495	1363	1248	1153	1078
ENERGY (ft.-lbs.)	1187	987	818	680	570	487	426
TRAJ: 100 yds. zero	-1.5"	0.0	-11.4"	-38.5"	-84.3"	-152.5"	-246.8"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-21.3"	-61.4"	-123.9"	-212.5"
TRAJ: 300 yds. zero	-1.5"	12.8"	14.2"	0.0	-33.0"	-88.4"	-169.8"
TRAJ: 400 yds. zero	-1.5"	21.1"	30.7"	24.7"	0.0	-47.1"	-120.4"
TRAJ: 500 yds. zero	-1.5"	30.5"	49.5"	53.0"	37.7"	0.0	-63.8"
TRAJ: 600 yds. zero	-1.5"	41.1"	70.8"	84.9"	80.2"	53.2"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1549	1411	1289	1186	1104	1041
ENERGY (ft.-lbs.)	1059	878	729	609	515	447	397
TRAJ: 100 yds. zero	-1.5"	0.0	-13.0"	-43.6"	-95.0"	-171.3"	-275.7"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-24.0"	-69.0"	-138.7"	-236.6"
TRAJ: 300 yds. zero	-1.5"	14.5"	16.0"	0.0	-37.0"	-98.7"	-188.6"
TRAJ: 400 yds. zero	-1.5"	23.8"	34.5"	27.7"	0.0	-52.5"	-133.1"
TRAJ: 500 yds. zero	-1.5"	34.3"	55.5"	59.2"	42.0"	0.0	-70.2"
TRAJ: 600 yds. zero	-1.5"	45.9"	78.9"	94.3"	88.8"	58.5"	0.0
VELOCITY (fps)	1600	1457	1330	1220	1130	1061	1007
ENERGY (ft.-lbs.)	938	778	647	545	468	413	372
TRAJ: 100 yds. zero	-1.5"	0.0	-14.9"	-49.5"	-107.5"	-192.5"	-308.0"
TRAJ: 200 yds. zero	-1.5"	7.4"	0.0	-27.1"	-77.7"	-155.3"	-263.3"
TRAJ: 300 yds. zero	-1.5"	16.5"	18.1"	0.0	-41.5"	-110.0"	-209.0"
TRAJ: 400 yds. zero	-1.5"	26.9"	38.8"	31.1"	0.0	-58.2"	-146.8"
TRAJ: 500 yds. zero	-1.5"	38.5"	62.1"	66.0"	46.5"	0.0	-76.9"
TRAJ: 600 yds. zero	-1.5"	51.3"	87.8"	104.5"	97.8"	64.1"	0.0
VELOCITY (fps)	1500	1367	1252	1156	1081	1023	976
ENERGY (ft.-lbs.)	824	685	574	489	428	383	349
TRAJ: 100 yds. zero	-1.5"	0.0	-17.1"	-56.4"	-121.7"	-216.5"	-343.8"
TRAJ: 200 yds. zero	-1.5"	8.6"	0.0	-30.8"	-87.5"	-173.7"	-292.4"
TRAJ: 300 yds. zero	-1.5"	18.8"	20.5"	0.0	-46.5"	-122.4"	-230.9"
TRAJ: 400 yds. zero	-1.5"	30.4"	43.7"	34.9"	0.0	-64.3"	-161.2"
TRAJ: 500 yds. zero	-1.5"	43.3"	69.5"	73.5"	51.5"	0.0	-84.0"
TRAJ: 600 yds. zero	-1.5"	57.3"	97.5"	115.4"	107.5"	70.0"	0.0

30 CALIBER (.308" Dia.) 168 GRAIN BOAT TAIL HOLLOW POINT NATIONAL MATCH
SECTIONAL DENSITY: .253 BALLISTIC COEFFICIENT: .450

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	3074	2860	2655	2460	2273	2094
ENERGY (ft.-lbs.)	4062	3525	3050	2629	2257	1926	1635
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-8.6"	-20.0"	-37.1"	-61.0"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.3"	-15.6"	-31.7"	-54.4"
TRAJ: 300 yds. zero	-1.5"	2.9"	3.6"	0.0	-8.5"	-22.7"	-43.7"
TRAJ: 400 yds. zero	-1.5"	5.0"	7.8"	6.4"	0.0	-12.1"	-31.0"
TRAJ: 500 yds. zero	-1.5"	7.4"	12.7"	13.6"	9.7"	0.0	-16.4"
TRAJ: 600 yds. zero	-1.5"	10.2"	18.1"	21.9"	20.7"	13.7"	0.0
VELOCITY (fps)	3200	2979	2769	2569	2377	2194	2018
ENERGY (ft.-lbs.)	3819	3310	2860	2461	2108	1795	1519
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.4"	-21.6"	-40.0"	-65.6"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.7"	-16.8"	-33.9"	-58.4"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.8"	0.0	-9.1"	-24.4"	-46.9"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.4"	6.8"	0.0	-13.0"	-33.2"
TRAJ: 500 yds. zero	-1.5"	8.0"	13.6"	14.6"	10.4"	0.0	-17.6"
TRAJ: 600 yds. zero	-1.5"	10.9"	19.5"	23.4"	22.1"	14.7"	0.0
VELOCITY (fps)	3100	2884	2679	2482	2294	2114	1943
ENERGY (ft.-lbs.)	3584	3103	2676	2298	1963	1667	1408
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.2"	-23.4"	-43.2"	-70.8"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.2"	-18.0"	-36.5"	-62.7"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.1"	0.0	-9.8"	-26.2"	-50.3"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.0"	7.3"	0.0	-13.9"	-35.7"
TRAJ: 500 yds. zero	-1.5"	8.6"	14.6"	15.7"	11.2"	0.0	-18.9"
TRAJ: 600 yds. zero	-1.5"	11.8"	20.9"	25.2"	23.8"	15.8"	0.0
VELOCITY (fps)	3000	2789	2588	2395	2211	2035	1867
ENERGY (ft.-lbs.)	3357	2901	2498	2140	1823	1544	1300
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.1"	-25.4"	-46.7"	-76.5"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.7"	-19.4"	-39.3"	-67.6"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.5"	0.0	-10.5"	-28.2"	-54.2"
TRAJ: 400 yds. zero	-1.5"	6.3"	9.7"	7.9"	0.0	-15.0"	-38.4"
TRAJ: 500 yds. zero	-1.5"	9.3"	15.7"	16.9"	12.0"	0.0	-20.4"
TRAJ: 600 yds. zero	-1.5"	12.8"	22.5"	27.1"	25.6"	17.0"	0.0
VELOCITY (fps)	2900	2694	2497	2308	2128	1955	1792
ENERGY (ft.-lbs.)	3137	2706	2325	1987	1688	1426	1198
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.2"	-27.6"	-50.7"	-82.9"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.2"	-21.0"	-42.5"	-73.0"
TRAJ: 300 yds. zero	-1.5"	4.1"	4.8"	0.0	-11.4"	-30.4"	-58.6"
TRAJ: 400 yds. zero	-1.5"	6.9"	10.5"	8.5"	0.0	-16.2"	-41.5"
TRAJ: 500 yds. zero	-1.5"	10.1"	17.0"	18.2"	13.0"	0.0	-22.1"
TRAJ: 600 yds. zero	-1.5"	13.8"	24.3"	29.3"	27.7"	18.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2800	2598	2405	2221	2044	1876	1717
ENERGY (ft.-lbs.)	2924	2518	2158	1839	1558	1313	1100
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-13.3"	-30.1"	-55.1"	-90.1"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.8"	-22.8"	-46.0"	-79.2"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.2"	0.0	-12.3"	-32.9"	-63.5"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.4"	9.2"	0.0	-17.6"	-45.0"
TRAJ: 500 yds. zero	-1.5"	11.0"	18.4"	19.8"	14.0"	0.0	-24.0"
TRAJ: 600 yds. zero	-1.5"	15.0"	26.4"	31.7"	30.0"	20.0"	0.0
VELOCITY (fps)	2700	2503	2314	2133	1961	1797	1643
ENERGY (ft.-lbs.)	2719	2336	1997	1697	1434	1204	1007
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-14.6"	-32.8"	-60.1"	-98.2"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.5"	-24.7"	-50.0"	-86.0"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.7"	0.0	-13.3"	-35.8"	-69.0"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.4"	10.0"	0.0	-19.1"	-49.0"
TRAJ: 500 yds. zero	-1.5"	12.0"	20.0"	21.5"	15.3"	0.0	-26.1"
TRAJ: 600 yds. zero	-1.5"	16.4"	28.7"	34.5"	32.6"	21.7"	0.0
VELOCITY (fps)	2600	2407	2222	2045	1877	1719	1571
ENERGY (ft.-lbs.)	2521	2161	1842	1561	1315	1102	920
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.1"	-36.0"	-65.7"	-107.3"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.3"	-26.9"	-54.5"	-93.8"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.2"	0.0	-14.5"	-39.0"	-75.2"
TRAJ: 400 yds. zero	-1.5"	9.0"	13.5"	10.9"	0.0	-20.8"	-53.4"
TRAJ: 500 yds. zero	-1.5"	13.1"	21.8"	23.4"	16.6"	0.0	-28.4"
TRAJ: 600 yds. zero	-1.5"	17.9"	31.3"	37.6"	35.6"	23.7"	0.0
VELOCITY (fps)	2500	2311	2131	1958	1795	1641	1499
ENERGY (ft.-lbs.)	2331	1992	1693	1430	1201	1005	839
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-17.7"	-39.5"	-72.1"	-117.7"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.2"	-29.5"	-59.5"	-102.6"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.8"	0.0	-15.9"	-42.6"	-82.2"
TRAJ: 400 yds. zero	-1.5"	9.9"	14.7"	11.9"	0.0	-22.7"	-58.4"
TRAJ: 500 yds. zero	-1.5"	14.4"	23.8"	25.5"	18.2"	0.0	-31.1"
TRAJ: 600 yds. zero	-1.5"	19.6"	34.2"	41.1"	38.9"	26.0"	0.0
VELOCITY (fps)	2400	2216	2039	1871	1713	1565	1430
ENERGY (ft.-lbs.)	2148	1831	1551	1306	1094	914	763
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-19.6"	-43.5"	-79.3"	-129.4"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.2"	-32.3"	-65.3"	-112.6"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.5"	0.0	-17.4"	-46.7"	-90.2"
TRAJ: 400 yds. zero	-1.5"	10.9"	16.2"	13.1"	0.0	-24.9"	-64.1"
TRAJ: 500 yds. zero	-1.5"	15.9"	26.1"	28.0"	19.9"	0.0	-34.2"
TRAJ: 600 yds. zero	-1.5"	21.6"	37.5"	45.1"	42.7"	28.5"	0.0
VELOCITY (fps)	2300	2120	1948	1785	1632	1491	1364
ENERGY (ft.-lbs.)	1973	1676	1415	1189	994	829	694
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-21.7"	-48.1"	-87.5"	-142.7"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.3"	-35.6"	-71.9"	-123.9"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.2"	0.0	-19.1"	-51.4"	-99.3"
TRAJ: 400 yds. zero	-1.5"	12.0"	17.8"	14.4"	0.0	-27.4"	-70.6"
TRAJ: 500 yds. zero	-1.5"	17.5"	28.8"	30.8"	22.0"	0.0	-37.7"
TRAJ: 600 yds. zero	-1.5"	23.8"	41.3"	49.7"	47.1"	31.4"	0.0
VELOCITY (fps)	2200	2024	1857	1700	1553	1419	1300
ENERGY (ft.-lbs.)	1805	1528	1287	1078	900	751	631
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-24.1"	-53.3"	-96.9"	-157.8"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.6"	-39.3"	-79.4"	-136.8"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.1"	0.0	-21.1"	-56.7"	-109.6"
TRAJ: 400 yds. zero	-1.5"	13.3"	19.6"	15.8"	0.0	-30.3"	-77.9"
TRAJ: 500 yds. zero	-1.5"	19.4"	31.8"	34.0"	24.2"	0.0	-41.6"
TRAJ: 600 yds. zero	-1.5"	26.3"	45.6"	54.8"	52.0"	34.6"	0.0
VELOCITY (fps)	2100	1929	1767	1616	1476	1350	1241
ENERGY (ft.-lbs.)	1645	1388	1165	974	813	680	574
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-26.9"	-59.2"	-107.6"	-175.1"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-15.1"	-43.5"	-88.0"	-151.6"
TRAJ: 300 yds. zero	-1.5"	9.0"	10.1"	0.0	-23.4"	-62.8"	-121.4"
TRAJ: 400 yds. zero	-1.5"	14.8"	21.8"	17.6"	0.0	-33.6"	-86.3"
TRAJ: 500 yds. zero	-1.5"	21.5"	35.2"	37.7"	26.8"	0.0	-46.0"
TRAJ: 600 yds. zero	-1.5"	29.2"	50.5"	60.7"	57.5"	38.3"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2000	1834	1678	1533	1401	1285	1186
ENERGY (ft.-lbs.)	1492	1255	1051	877	732	616	524
TRAJ: 100 yds. zero	-1.5"	0.0	-8.9"	-30.1"	-66.1"	-119.9"	-194.9"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-16.8"	-48.4"	-97.8"	-168.3"
TRAJ: 300 yds. zero	-1.5"	10.0"	11.2"	0.0	-26.0"	-69.8"	-134.7"
TRAJ: 400 yds. zero	-1.5"	16.5"	24.2"	19.5"	0.0	-37.3"	-95.7"
TRAJ: 500 yds. zero	-1.5"	24.0"	39.1"	41.9"	29.8"	0.0	-51.0"
TRAJ: 600 yds. zero	-1.5"	32.5"	56.1"	67.4"	63.8"	42.5"	0.0
VELOCITY (fps)	1900	1740	1590	1453	1330	1223	1136
ENERGY (ft.-lbs.)	1346	1129	943	787	659	558	481
TRAJ: 100 yds. zero	-1.5"	0.0	-10.0"	-33.8"	-74.1"	-134.1"	-217.4"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-18.8"	-54.1"	-109.1"	-187.4"
TRAJ: 300 yds. zero	-1.5"	11.3"	12.5"	0.0	-29.0"	-77.8"	-149.8"
TRAJ: 400 yds. zero	-1.5"	18.5"	27.0"	21.8"	0.0	-41.5"	-106.3"
TRAJ: 500 yds. zero	-1.5"	26.8"	43.6"	46.7"	33.2"	0.0	-56.5"
TRAJ: 600 yds. zero	-1.5"	36.2"	62.5"	74.9"	70.9"	47.1"	0.0
VELOCITY (fps)	1800	1646	1504	1375	1262	1167	1092
ENERGY (ft.-lbs.)	1208	1011	844	705	594	508	444
TRAJ: 100 yds. zero	-1.5"	0.0	-11.4"	-38.1"	-83.3"	-150.4"	-242.9"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-21.1"	-60.6"	-122.0"	-208.9"
TRAJ: 300 yds. zero	-1.5"	12.7"	14.1"	0.0	-32.5"	-86.8"	-166.7"
TRAJ: 400 yds. zero	-1.5"	20.8"	30.3"	24.4"	0.0	-46.2"	-118.0"
TRAJ: 500 yds. zero	-1.5"	30.1"	48.8"	52.1"	37.0"	0.0	-62.5"
TRAJ: 600 yds. zero	-1.5"	40.5"	69.6"	83.4"	78.7"	52.1"	0.0
VELOCITY (fps)	1700	1553	1419	1300	1199	1116	1052
ENERGY (ft.-lbs.)	1078	900	752	631	536	465	413
TRAJ: 100 yds. zero	-1.5"	0.0	-12.9"	-43.2"	-94.0"	-169.0"	-271.7"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-23.8"	-68.1"	-136.7"	-232.9"
TRAJ: 300 yds. zero	-1.5"	14.4"	15.8"	0.0	-36.4"	-97.1"	-185.4"
TRAJ: 400 yds. zero	-1.5"	23.5"	34.1"	27.3"	0.0	-51.5"	-130.8"
TRAJ: 500 yds. zero	-1.5"	33.8"	54.7"	58.2"	41.2"	0.0	-68.9"
TRAJ: 600 yds. zero	-1.5"	45.3"	77.6"	92.7"	87.2"	57.4"	0.0
VELOCITY (fps)	1600	1462	1337	1230	1141	1072	1017
ENERGY (ft.-lbs.)	955	797	667	564	486	428	386
TRAJ: 100 yds. zero	-1.5"	0.0	-14.8"	-49.1"	-106.3"	-190.2"	-303.9"
TRAJ: 200 yds. zero	-1.5"	7.4"	0.0	-26.9"	-76.7"	-153.2"	-259.5"
TRAJ: 300 yds. zero	-1.5"	16.4"	17.9"	0.0	-40.9"	-108.4"	-205.8"
TRAJ: 400 yds. zero	-1.5"	26.6"	38.4"	30.7"	0.0	-57.3"	-144.5"
TRAJ: 500 yds. zero	-1.5"	38.0"	61.3"	65.1"	45.8"	0.0	-75.7"
TRAJ: 600 yds. zero	-1.5"	50.7"	86.5"	102.9"	96.3"	63.1"	0.0
VELOCITY (fps)	1500	1372	1259	1165	1090	1031	985
ENERGY (ft.-lbs.)	839	702	591	506	443	397	362
TRAJ: 100 yds. zero	-1.5"	0.0	-17.0"	-56.0"	-120.5"	-214.1"	-339.7"
TRAJ: 200 yds. zero	-1.5"	8.5"	0.0	-30.5"	-86.5"	-171.6"	-288.7"
TRAJ: 300 yds. zero	-1.5"	18.7"	20.3"	0.0	-45.9"	-120.8"	-227.8"
TRAJ: 400 yds. zero	-1.5"	30.1"	43.3"	34.4"	0.0	-63.5"	-159.0"
TRAJ: 500 yds. zero	-1.5"	42.8"	68.6"	72.5"	50.8"	0.0	-82.8"
TRAJ: 600 yds. zero	-1.5"	56.6"	96.2"	113.9"	106.0"	69.0"	0.0

30 CALIBER (.308" Dia.) 170 GRAIN FLAT POINT
SECTIONAL DENSITY: .256 BALLISTIC COEFFICIENT: .189

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2700	2466	2244	2033	1835	1650	1482
ENERGY (ft.-lbs.)	2751	2295	1900	1560	1271	1028	829
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.6"	-5.4"	-11.7"	-21.3"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-1.7"	-5.5"	-11.9"	-21.5"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.1"	0.0	-3.2"	-9.1"	-18.1"
TRAJ: 200 yds. zero	-1.5"	1.3"	2.8"	2.4"	0.0	-5.0"	-13.3"
TRAJ: 250 yds. zero	-1.5"	2.3"	4.8"	5.4"	4.0"	0.0	-7.2"
TRAJ: 300 yds. zero	-1.5"	3.6"	7.2"	9.1"	8.8"	6.0"	0.0
VELOCITY (fps)	2600	2371	2154	1948	1756	1577	1417
ENERGY (ft.-lbs.)	2551	2122	1751	1433	1163	939	758
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.0"	-6.2"	-13.3"	-23.8"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.9"	-6.1"	-13.1"	-23.7"
TRAJ: 150 yds. zero	-1.5"	0.7"	1.3"	0.0	-3.6"	-10.0"	-19.9"
TRAJ: 200 yds. zero	-1.5"	1.6"	3.1"	2.7"	0.0	-5.5"	-14.5"
TRAJ: 250 yds. zero	-1.5"	2.7"	5.3"	6.0"	4.4"	0.0	-7.9"
TRAJ: 300 yds. zero	-1.5"	4.0"	7.9"	9.9"	9.7"	6.6"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2500	2276	2064	1864	1677	1506	1354
ENERGY (ft.-lbs.)	2359	1955	1608	1311	1061	856	692
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.4"	-7.2"	-15.0"	-26.7"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.1"	-6.8"	-14.5"	-26.2"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-3.9"	-11.0"	-21.9"
TRAJ: 200 yds. zero	-1.5"	1.8"	3.4"	3.0"	0.0	-6.1"	-16.0"
TRAJ: 250 yds. zero	-1.5"	3.0"	5.8"	6.6"	4.8"	0.0	-8.7"
TRAJ: 300 yds. zero	-1.5"	4.5"	8.7"	10.9"	10.7"	7.3"	0.0
VELOCITY (fps)	2400	2181	1974	1780	1600	1436	1294
ENERGY (ft.-lbs.)	2174	1796	1471	1195	966	779	632
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-2.9"	-8.2"	-17.0"	-29.9"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.4"	-7.6"	-16.1"	-29.0"
TRAJ: 150 yds. zero	-1.5"	1.0"	1.6"	0.0	-4.4"	-12.1"	-24.1"
TRAJ: 200 yds. zero	-1.5"	2.1"	3.8"	3.3"	0.0	-6.7"	-17.6"
TRAJ: 250 yds. zero	-1.5"	3.4"	6.5"	7.3"	5.3"	0.0	-9.6"
TRAJ: 300 yds. zero	-1.5"	5.0"	9.7"	12.1"	11.7"	8.0"	0.0
VELOCITY (fps)	2300	2086	1885	1697	1524	1369	1238
ENERGY (ft.-lbs.)	1997	1643	1341	1086	876	708	578
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.5"	-9.5"	-19.2"	-33.6"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.7"	-8.4"	-17.9"	-32.1"
TRAJ: 150 yds. zero	-1.5"	1.2"	1.8"	0.0	-4.8"	-13.4"	-26.7"
TRAJ: 200 yds. zero	-1.5"	2.4"	4.2"	3.6"	0.0	-7.4"	-19.4"
TRAJ: 250 yds. zero	-1.5"	3.8"	7.2"	8.1"	5.9"	0.0	-10.6"
TRAJ: 300 yds. zero	-1.5"	5.6"	10.7"	13.4"	13.0"	8.8"	0.0
VELOCITY (fps)	2200	1992	1796	1615	1450	1306	1186
ENERGY (ft.-lbs.)	1827	1497	1218	984	793	643	531
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.1"	-10.8"	-21.8"	-37.8"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-3.1"	-9.5"	-20.0"	-35.7"
TRAJ: 150 yds. zero	-1.5"	1.4"	2.0"	0.0	-5.4"	-14.9"	-29.6"
TRAJ: 200 yds. zero	-1.5"	2.7"	4.7"	4.0"	0.0	-8.2"	-21.5"
TRAJ: 250 yds. zero	-1.5"	4.4"	8.0"	9.0"	6.6"	0.0	-11.7"
TRAJ: 300 yds. zero	-1.5"	6.3"	11.9"	14.8"	14.3"	9.7"	0.0
VELOCITY (fps)	2100	1898	1708	1534	1379	1245	1138
ENERGY (ft.-lbs.)	1664	1359	1101	889	718	585	489
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-4.8"	-12.4"	-24.7"	-42.5"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.4"	-10.6"	-22.4"	-39.7"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.3"	0.0	-6.0"	-16.6"	-32.8"
TRAJ: 200 yds. zero	-1.5"	3.1"	5.3"	4.5"	0.0	-9.1"	-23.8"
TRAJ: 250 yds. zero	-1.5"	4.9"	8.9"	10.0"	7.3"	0.0	-12.9"
TRAJ: 300 yds. zero	-1.5"	7.1"	13.2"	16.4"	15.9"	10.8"	0.0
VELOCITY (fps)	2000	1804	1622	1456	1311	1190	1096
ENERGY (ft.-lbs.)	1510	1228	993	800	649	534	454
TRAJ: 50 yds. zero	-1.5"	0.0	-1.2"	-5.7"	-14.3"	-28.0"	-47.8"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.9"	-11.9"	-25.0"	-44.3"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.6"	0.0	-6.7"	-18.5"	-36.5"
TRAJ: 200 yds. zero	-1.5"	3.6"	6.0"	5.0"	0.0	-10.1"	-26.4"
TRAJ: 250 yds. zero	-1.5"	5.6"	10.0"	11.1"	8.1"	0.0	-14.2"
TRAJ: 300 yds. zero	-1.5"	8.0"	14.8"	18.2"	17.6"	11.9"	0.0
VELOCITY (fps)	1900	1711	1536	1381	1247	1140	1059
ENERGY (ft.-lbs.)	1362	1104	891	719	587	490	423
TRAJ: 50 yds. zero	-1.5"	0.0	-1.5"	-6.7"	-16.4"	-31.8"	-53.8"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.4"	-13.4"	-28.1"	-49.3"
TRAJ: 150 yds. zero	-1.5"	2.2"	3.0"	0.0	-7.5"	-20.7"	-40.5"
TRAJ: 200 yds. zero	-1.5"	4.1"	6.7"	5.7"	0.0	-11.3"	-29.2"
TRAJ: 250 yds. zero	-1.5"	6.4"	11.2"	12.4"	9.0"	0.0	-15.7"
TRAJ: 300 yds. zero	-1.5"	9.0"	16.4"	20.2"	19.4"	13.1"	0.0
VELOCITY (fps)	1800	1618	1453	1308	1188	1095	1026
ENERGY (ft.-lbs.)	1223	988	797	646	532	452	397
TRAJ: 50 yds. zero	-1.5"	0.0	-1.8"	-7.8"	-18.8"	-36.1"	-60.4"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-5.0"	-15.2"	-31.5"	-54.9"
TRAJ: 150 yds. zero	-1.5"	2.6"	3.4"	0.0	-8.5"	-23.1"	-44.9"
TRAJ: 200 yds. zero	-1.5"	4.7"	7.6"	6.3"	0.0	-12.5"	-32.2"
TRAJ: 250 yds. zero	-1.5"	7.2"	12.6"	13.8"	10.0"	0.0	-17.2"
TRAJ: 300 yds. zero	-1.5"	10.1"	18.3"	22.4"	21.4"	14.3"	0.0

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RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1700	1527	1372	1240	1134	1055	995
ENERGY (ft.-lbs.)	1091	880	711	580	486	420	374
TRAJ: 50 yds. zero	-1.5"	0.0	-2.2"	-9.1"	-21.6"	-40.9"	-67.8"
TRAJ: 100 yds. zero	-1.5"	1.1"	0.0	-5.7"	-17.2"	-35.3"	-61.1"
TRAJ: 150 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.5"	-25.7"	-49.6"
TRAJ: 200 yds. zero	-1.5"	5.4"	8.6"	7.1"	0.0	-13.8"	-35.3"
TRAJ: 250 yds. zero	-1.5"	8.2"	14.1"	15.4"	11.1"	0.0	-18.7"
TRAJ: 300 yds. zero	-1.5"	11.3"	20.4"	24.8"	23.6"	15.6"	0.0
VELOCITY (fps)	1600	1437	1294	1177	1087	1019	967
ENERGY (ft.-lbs.)	966	779	632	523	446	392	353
TRAJ: 50 yds. zero	-1.5"	0.0	-2.7"	-10.6"	-24.8"	-46.3"	-75.9"
TRAJ: 100 yds. zero	-1.5"	1.4"	0.0	-6.6"	-19.4"	-39.5"	-67.7"
TRAJ: 150 yds. zero	-1.5"	3.5"	4.4"	0.0	-10.6"	-28.6"	-54.6"
TRAJ: 200 yds. zero	-1.5"	6.2"	9.7"	8.0"	0.0	-15.3"	-38.6"
TRAJ: 250 yds. zero	-1.5"	9.3"	15.8"	17.1"	12.2"	0.0	-20.3"
TRAJ: 300 yds. zero	-1.5"	12.6"	22.6"	27.3"	25.8"	16.9"	0.0
VELOCITY (fps)	1500	1349	1221	1119	1044	987	940
ENERGY (ft.-lbs.)	849	687	562	473	411	367	333
TRAJ: 50 yds. zero	-1.5"	0.0	-3.3"	-12.4"	-28.4"	-52.3"	-84.8"
TRAJ: 100 yds. zero	-1.5"	1.6"	0.0	-7.5"	-21.9"	-44.1"	-74.9"
TRAJ: 150 yds. zero	-1.5"	4.1"	5.0"	0.0	-11.9"	-31.6"	-60.0"
TRAJ: 200 yds. zero	-1.5"	7.1"	10.9"	8.9"	0.0	-16.8"	-42.1"
TRAJ: 250 yds. zero	-1.5"	10.5"	17.6"	19.0"	13.4"	0.0	-22.0"
TRAJ: 300 yds. zero	-1.5"	14.1"	25.0"	30.0"	28.1"	18.4"	0.0

30 CALIBER (.308" Dia.) 180 GRAIN SPIRE POINT
SECTIONAL DENSITY: .271 BALLISTIC COEFFICIENT: .425

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2967	2745	2534	2333	2141	1958
ENERGY (ft.-lbs.)	4092	3517	3012	2567	2176	1832	1533
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-9.5"	-22.0"	-40.9"	-67.4"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.8"	-17.1"	-34.8"	-60.0"
TRAJ: 300 yds. zero	-1.5"	3.2"	3.9"	0.0	-9.3"	-25.0"	-48.3"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.6"	7.0"	0.0	-13.4"	-34.4"
TRAJ: 500 yds. zero	-1.5"	8.2"	13.9"	15.0"	10.7"	0.0	-18.3"
TRAJ: 600 yds. zero	-1.5"	11.2"	20.0"	24.2"	22.9"	15.2"	0.0
VELOCITY (fps)	3100	2872	2655	2449	2251	2063	1884
ENERGY (ft.-lbs.)	3840	3296	2817	2396	2025	1701	1419
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.4"	-23.8"	-44.2"	-72.7"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.3"	-18.4"	-37.4"	-64.5"
TRAJ: 300 yds. zero	-1.5"	3.5"	4.2"	0.0	-10.0"	-26.9"	-51.9"
TRAJ: 400 yds. zero	-1.5"	6.0"	9.2"	7.5"	0.0	-14.4"	-36.9"
TRAJ: 500 yds. zero	-1.5"	8.8"	15.0"	16.1"	11.5"	0.0	-19.7"
TRAJ: 600 yds. zero	-1.5"	12.1"	21.5"	26.0"	24.6"	16.4"	0.0
VELOCITY (fps)	3000	2777	2565	2362	2169	1985	1810
ENERGY (ft.-lbs.)	3597	3082	2629	2230	1880	1574	1310
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.3"	-25.9"	-47.8"	-78.6"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.8"	-19.8"	-40.3"	-69.6"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.5"	0.0	-10.8"	-29.0"	-56.0"
TRAJ: 400 yds. zero	-1.5"	6.5"	9.9"	8.1"	0.0	-15.5"	-39.8"
TRAJ: 500 yds. zero	-1.5"	9.6"	16.1"	17.4"	12.4"	0.0	-21.2"
TRAJ: 600 yds. zero	-1.5"	13.1"	23.2"	28.0"	26.5"	17.7"	0.0
VELOCITY (fps)	2900	2682	2474	2276	2086	1906	1737
ENERGY (ft.-lbs.)	3361	2874	2446	2069	1739	1452	1205
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.4"	-28.1"	-51.9"	-85.2"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.4"	-21.4"	-43.5"	-75.2"
TRAJ: 300 yds. zero	-1.5"	4.1"	4.9"	0.0	-11.6"	-31.3"	-60.5"
TRAJ: 400 yds. zero	-1.5"	7.0"	10.7"	8.7"	0.0	-16.7"	-43.1"
TRAJ: 500 yds. zero	-1.5"	10.4"	17.4"	18.8"	13.4"	0.0	-23.0"
TRAJ: 600 yds. zero	-1.5"	14.2"	25.1"	30.3"	28.7"	19.2"	0.0
VELOCITY (fps)	2800	2587	2383	2189	2004	1828	1664
ENERGY (ft.-lbs.)	3133	2674	2270	1914	1604	1336	1106
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-13.5"	-30.7"	-56.4"	-92.7"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.0"	-23.2"	-47.2"	-81.6"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.3"	0.0	-12.6"	-33.9"	-65.6"
TRAJ: 400 yds. zero	-1.5"	7.7"	11.6"	9.4"	0.0	-18.1"	-46.7"
TRAJ: 500 yds. zero	-1.5"	11.3"	18.9"	20.3"	14.5"	0.0	-24.9"
TRAJ: 600 yds. zero	-1.5"	15.4"	27.2"	32.8"	31.1"	20.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2491	2292	2102	1921	1751	1592
ENERGY (ft.-lbs.)	2913	2480	2099	1766	1475	1225	1013
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-14.9"	-33.5"	-61.6"	-101.0"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-8.7"	-25.3"	-51.3"	-88.7"
TRAJ: 300 yds. zero	-1.5"	5.0"	5.8"	0.0	-13.7"	-36.8"	-71.3"
TRAJ: 400 yds. zero	-1.5"	8.4"	12.6"	10.3"	0.0	-19.7"	-50.8"
TRAJ: 500 yds. zero	-1.5"	12.3"	20.5"	22.1"	15.8"	0.0	-27.2"
TRAJ: 600 yds. zero	-1.5"	16.8"	29.6"	35.7"	33.9"	22.6"	0.0
VELOCITY (fps)	2600	2396	2201	2015	1839	1674	1521
ENERGY (ft.-lbs.)	2701	2294	1936	1623	1352	1120	925
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-16.3"	-36.7"	-67.3"	-110.4"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.5"	-27.5"	-55.9"	-96.7"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.3"	0.0	-14.9"	-40.1"	-77.8"
TRAJ: 400 yds. zero	-1.5"	9.2"	13.8"	11.2"	0.0	-21.5"	-55.4"
TRAJ: 500 yds. zero	-1.5"	13.5"	22.4"	24.1"	17.2"	0.0	-29.6"
TRAJ: 600 yds. zero	-1.5"	18.4"	32.2"	38.9"	37.0"	24.7"	0.0
VELOCITY (fps)	2500	2300	2110	1929	1758	1598	1453
ENERGY (ft.-lbs.)	2498	2115	1779	1486	1235	1021	843
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-18.0"	-40.3"	-73.8"	-121.1"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.4"	-30.1"	-61.1"	-105.9"
TRAJ: 300 yds. zero	-1.5"	6.0"	6.9"	0.0	-16.3"	-43.9"	-85.1"
TRAJ: 400 yds. zero	-1.5"	10.1"	15.1"	12.2"	0.0	-23.5"	-60.7"
TRAJ: 500 yds. zero	-1.5"	14.8"	24.5"	26.3"	18.8"	0.0	-32.5"
TRAJ: 600 yds. zero	-1.5"	20.2"	35.3"	42.6"	40.5"	27.1"	0.0
VELOCITY (fps)	2400	2205	2019	1843	1677	1524	1386
ENERGY (ft.-lbs.)	2302	1943	1629	1357	1124	929	768
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-19.9"	-44.4"	-81.3"	-133.2"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.4"	-33.0"	-67.1"	-116.2"
TRAJ: 300 yds. zero	-1.5"	6.6"	7.6"	0.0	-17.9"	-48.1"	-93.4"
TRAJ: 400 yds. zero	-1.5"	11.1"	16.5"	13.4"	0.0	-25.8"	-66.6"
TRAJ: 500 yds. zero	-1.5"	16.3"	26.8"	28.9"	20.6"	0.0	-35.7"
TRAJ: 600 yds. zero	-1.5"	22.2"	38.7"	46.7"	44.4"	29.7"	0.0
VELOCITY (fps)	2300	2109	1928	1757	1598	1452	1322
ENERGY (ft.-lbs.)	2114	1778	1486	1234	1021	843	699
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-22.0"	-49.0"	-89.7"	-146.9"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-12.5"	-36.4"	-73.9"	-127.9"
TRAJ: 300 yds. zero	-1.5"	7.3"	8.4"	0.0	-19.6"	-53.0"	-102.9"
TRAJ: 400 yds. zero	-1.5"	12.3"	18.2"	14.7"	0.0	-28.4"	-73.4"
TRAJ: 500 yds. zero	-1.5"	17.9"	29.5"	31.8"	22.7"	0.0	-39.3"
TRAJ: 600 yds. zero	-1.5"	24.5"	42.6"	51.4"	48.9"	32.7"	0.0
VELOCITY (fps)	2200	2014	1838	1673	1521	1383	1262
ENERGY (ft.-lbs.)	1934	1621	1350	1119	924	764	637
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-24.5"	-54.4"	-99.3"	-162.5"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.9"	-40.2"	-81.6"	-141.3"
TRAJ: 300 yds. zero	-1.5"	8.2"	9.2"	0.0	-21.7"	-58.5"	-113.6"
TRAJ: 400 yds. zero	-1.5"	13.6"	20.1"	16.3"	0.0	-31.4"	-81.0"
TRAJ: 500 yds. zero	-1.5"	19.9"	32.6"	35.1"	25.1"	0.0	-43.4"
TRAJ: 600 yds. zero	-1.5"	27.1"	47.1"	56.8"	54.0"	36.1"	0.0
VELOCITY (fps)	2100	1919	1749	1590	1445	1316	1206
ENERGY (ft.-lbs.)	1762	1472	1222	1011	835	692	582
TRAJ: 100 yds. zero	-1.5"	0.0	-8.0"	-27.3"	-60.5"	-110.3"	-180.3"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-15.4"	-44.5"	-90.4"	-156.5"
TRAJ: 300 yds. zero	-1.5"	9.1"	10.2"	0.0	-24.0"	-64.8"	-125.7"
TRAJ: 400 yds. zero	-1.5"	15.1"	22.3"	18.0"	0.0	-34.7"	-89.7"
TRAJ: 500 yds. zero	-1.5"	22.1"	36.2"	38.9"	27.8"	0.0	-48.0"
TRAJ: 600 yds. zero	-1.5"	30.1"	52.2"	62.9"	59.8"	40.0"	0.0
VELOCITY (fps)	2000	1825	1661	1509	1372	1254	1155
ENERGY (ft.-lbs.)	1598	1331	1102	910	753	628	533
TRAJ: 100 yds. zero	-1.5"	0.0	-9.0"	-30.6"	-67.5"	-122.9"	-200.6"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-17.1"	-49.6"	-100.5"	-173.7"
TRAJ: 300 yds. zero	-1.5"	10.2"	11.4"	0.0	-26.7"	-72.0"	-139.4"
TRAJ: 400 yds. zero	-1.5"	16.9"	24.8"	20.0"	0.0	-38.6"	-99.4"
TRAJ: 500 yds. zero	-1.5"	24.6"	40.2"	43.2"	30.9"	0.0	-53.1"
TRAJ: 600 yds. zero	-1.5"	33.4"	57.9"	69.7"	66.2"	44.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1900	1731	1574	1430	1303	1196	1110
ENERGY (ft.-lbs.)	1443	1197	989	817	679	571	492
TRAJ: 100 yds. zero	-1.5"	0.0	-10.1"	-34.3"	-75.6"	-137.4"	-223.6"
TRAJ: 200 yds. zero	-1.5"	5.1"	0.0	-19.1"	-55.3"	-112.1"	-193.2"
TRAJ: 300 yds. zero	-1.5"	11.4"	12.8"	0.0	-29.8"	-80.2"	-154.9"
TRAJ: 400 yds. zero	-1.5"	18.9"	27.7"	22.4"	0.0	-42.9"	-110.2"
TRAJ: 500 yds. zero	-1.5"	27.5"	44.8"	48.1"	34.3"	0.0	-58.7"
TRAJ: 600 yds. zero	-1.5"	37.3"	64.4"	77.4"	73.4"	48.9"	0.0
VELOCITY (fps)	1800	1638	1488	1354	1238	1143	1069
ENERGY (ft.-lbs.)	1295	1072	885	732	612	522	457
TRAJ: 100 yds. zero	-1.5"	0.0	-11.5"	-38.7"	-85.0"	-154.0"	-249.5"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-21.5"	-62.0"	-125.2"	-215.0"
TRAJ: 300 yds. zero	-1.5"	12.9"	14.3"	0.0	-33.3"	-89.4"	-172.0"
TRAJ: 400 yds. zero	-1.5"	21.2"	31.0"	25.0"	0.0	-47.7"	-122.0"
TRAJ: 500 yds. zero	-1.5"	30.8"	50.1"	53.7"	38.2"	0.0	-64.7"
TRAJ: 600 yds. zero	-1.5"	41.6"	71.7"	86.0"	81.3"	53.9"	0.0
VELOCITY (fps)	1700	1545	1405	1281	1178	1096	1033
ENERGY (ft.-lbs.)	1155	954	788	656	554	480	427
TRAJ: 100 yds. zero	-1.5"	0.0	-13.1"	-43.8"	-95.8"	-172.9"	-278.5"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-24.2"	-69.6"	-140.1"	-239.2"
TRAJ: 300 yds. zero	-1.5"	14.6"	16.1"	0.0	-37.4"	-99.8"	-190.8"
TRAJ: 400 yds. zero	-1.5"	24.0"	34.8"	28.0"	0.0	-53.1"	-134.8"
TRAJ: 500 yds. zero	-1.5"	34.6"	56.0"	59.9"	42.5"	0.0	-71.1"
TRAJ: 600 yds. zero	-1.5"	46.4"	79.7"	95.4"	89.9"	59.3"	0.0
VELOCITY (fps)	1600	1454	1324	1213	1123	1054	1000
ENERGY (ft.-lbs.)	1023	845	700	588	504	444	400
TRAJ: 100 yds. zero	-1.5"	0.0	-15.0"	-49.8"	-108.3"	-194.2"	-310.8"
TRAJ: 200 yds. zero	-1.5"	7.5"	0.0	-27.4"	-78.4"	-156.8"	-265.9"
TRAJ: 300 yds. zero	-1.5"	16.6"	18.2"	0.0	-41.9"	-111.2"	-211.2"
TRAJ: 400 yds. zero	-1.5"	27.1"	39.2"	31.4"	0.0	-58.8"	-148.3"
TRAJ: 500 yds. zero	-1.5"	38.8"	62.7"	66.7"	47.1"	0.0	-77.7"
TRAJ: 600 yds. zero	-1.5"	51.8"	88.6"	105.6"	98.9"	64.8"	0.0
VELOCITY (fps)	1500	1364	1247	1150	1075	1017	970
ENERGY (ft.-lbs.)	899	744	621	528	462	413	376
TRAJ: 100 yds. zero	-1.5"	0.0	-17.2"	-56.8"	-122.6"	-218.2"	-346.5"
TRAJ: 200 yds. zero	-1.5"	8.6"	0.0	-31.0"	-88.2"	-175.2"	-294.9"
TRAJ: 300 yds. zero	-1.5"	18.9"	20.6"	0.0	-46.9"	-123.5"	-233.0"
TRAJ: 400 yds. zero	-1.5"	30.6"	44.1"	35.2"	0.0	-64.9"	-162.6"
TRAJ: 500 yds. zero	-1.5"	43.6"	70.1"	74.1"	51.9"	0.0	-84.7"
TRAJ: 600 yds. zero	-1.5"	57.8"	98.3"	116.5"	108.4"	70.6"	0.0
VELOCITY (fps)	1400	1277	1174	1093	1031	982	941
ENERGY (ft.-lbs.)	783	652	551	478	425	385	354
TRAJ: 100 yds. zero	-1.5"	0.0	-19.8"	-64.8"	-138.7"	-244.9"	-386.0"
TRAJ: 200 yds. zero	-1.5"	9.9"	0.0	-35.1"	-99.1"	-195.3"	-326.6"
TRAJ: 300 yds. zero	-1.5"	21.6"	23.4"	0.0	-52.3"	-136.8"	-256.4"
TRAJ: 400 yds. zero	-1.5"	34.7"	49.5"	39.2"	0.0	-71.4"	-177.9"
TRAJ: 500 yds. zero	-1.5"	49.0"	78.1"	82.1"	57.1"	0.0	-92.2"
TRAJ: 600 yds. zero	-1.5"	64.3"	108.9"	128.2"	118.6"	76.8"	0.0

30 CALIBER (.308" Dia.) 180 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .271 BALLISTIC COEFFICIENT: .452

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2980	2771	2572	2381	2198	2023
ENERGY (ft.-lbs.)	4092	3549	3069	2643	2265	1930	1635
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-9.4"	-21.6"	-39.9"	-65.5"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-5.7"	-16.7"	-33.9"	-58.2"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.8"	0.0	-9.1"	-24.3"	-46.8"
TRAJ: 400 yds. zero	-1.5"	5.4"	8.4"	6.8"	0.0	-13.0"	-33.1"
TRAJ: 500 yds. zero	-1.5"	8.0"	13.6"	14.6"	10.4"	0.0	-17.6"
TRAJ: 600 yds. zero	-1.5"	10.9"	19.4"	23.4"	22.1"	14.6"	0.0
VELOCITY (fps)	3100	2885	2680	2485	2298	2118	1947
ENERGY (ft.-lbs.)	3840	3327	2871	2467	2109	1793	1515
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.2"	-23.4"	-43.1"	-70.6"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.2"	-18.0"	-36.4"	-62.6"
TRAJ: 300 yds. zero	-1.5"	3.4"	4.1"	0.0	-9.8"	-26.1"	-50.2"
TRAJ: 400 yds. zero	-1.5"	5.8"	9.0"	7.3"	0.0	-13.9"	-35.6"
TRAJ: 500 yds. zero	-1.5"	8.6"	14.6"	15.7"	11.1"	0.0	-18.9"
TRAJ: 600 yds. zero	-1.5"	11.8"	20.9"	25.1"	23.7"	15.7"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2790	2590	2398	2214	2039	1872
ENERGY (ft.-lbs.)	3597	3111	2680	2298	1959	1661	1400
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.1"	-25.4"	-46.7"	-76.4"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.7"	-19.4"	-39.2"	-67.5"
TRAJ: 300 yds. zero	-1.5"	3.7"	4.5"	0.0	-10.5"	-28.1"	-54.1"
TRAJ: 400 yds. zero	-1.5"	6.3"	9.7"	7.9"	0.0	-15.0"	-38.3"
TRAJ: 500 yds. zero	-1.5"	9.3"	15.7"	16.9"	12.0"	0.0	-20.4"
TRAJ: 600 yds. zero	-1.5"	12.7"	22.5"	27.0"	25.6"	17.0"	0.0
VELOCITY (fps)	2900	2695	2498	2310	2131	1959	1796
ENERGY (ft.-lbs.)	3361	2902	2494	2133	1814	1534	1289
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.2"	-27.6"	-50.6"	-82.8"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.2"	-21.0"	-42.4"	-72.9"
TRAJ: 300 yds. zero	-1.5"	4.1"	4.8"	0.0	-11.3"	-30.3"	-58.4"
TRAJ: 400 yds. zero	-1.5"	6.9"	10.5"	8.5"	0.0	-16.2"	-41.4"
TRAJ: 500 yds. zero	-1.5"	10.1"	17.0"	18.2"	12.9"	0.0	-22.0"
TRAJ: 600 yds. zero	-1.5"	13.8"	24.3"	29.2"	27.6"	18.4"	0.0
VELOCITY (fps)	2800	2599	2407	2223	2047	1880	1721
ENERGY (ft.-lbs.)	3133	2700	2315	1975	1674	1412	1184
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-13.3"	-30.0"	-55.0"	-89.9"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.8"	-22.7"	-45.9"	-79.0"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.2"	0.0	-12.3"	-32.9"	-63.3"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.4"	9.2"	0.0	-17.5"	-44.9"
TRAJ: 500 yds. zero	-1.5"	11.0"	18.4"	19.7"	14.0"	0.0	-23.9"
TRAJ: 600 yds. zero	-1.5"	15.0"	26.3"	31.7"	29.9"	19.9"	0.0
VELOCITY (fps)	2700	2504	2315	2135	1963	1800	1647
ENERGY (ft.-lbs.)	2913	2505	2142	1822	1541	1295	1084
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-14.6"	-32.8"	-60.0"	-98.0"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.5"	-24.7"	-49.9"	-85.8"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.7"	0.0	-13.3"	-35.7"	-68.8"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.3"	10.0"	0.0	-19.0"	-48.8"
TRAJ: 500 yds. zero	-1.5"	12.0"	20.0"	21.4"	15.2"	0.0	-26.0"
TRAJ: 600 yds. zero	-1.5"	16.3"	28.6"	34.4"	32.5"	21.7"	0.0
VELOCITY (fps)	2600	2408	2224	2048	1880	1722	1574
ENERGY (ft.-lbs.)	2701	2317	1976	1676	1413	1185	991
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.1"	-35.9"	-65.6"	-107.1"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.3"	-26.9"	-54.4"	-93.6"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.2"	0.0	-14.5"	-38.9"	-75.0"
TRAJ: 400 yds. zero	-1.5"	9.0"	13.4"	10.9"	0.0	-20.7"	-53.2"
TRAJ: 500 yds. zero	-1.5"	13.1"	21.7"	23.3"	16.6"	0.0	-28.4"
TRAJ: 600 yds. zero	-1.5"	17.9"	31.2"	37.5"	35.5"	23.6"	0.0
VELOCITY (fps)	2500	2312	2132	1960	1798	1645	1503
ENERGY (ft.-lbs.)	2498	2136	1817	1536	1291	1081	903
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-17.7"	-39.4"	-72.0"	-117.4"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.2"	-29.4"	-59.4"	-102.4"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.8"	0.0	-15.8"	-42.5"	-82.0"
TRAJ: 400 yds. zero	-1.5"	9.9"	14.7"	11.9"	0.0	-22.7"	-58.3"
TRAJ: 500 yds. zero	-1.5"	14.4"	23.8"	25.5"	18.1"	0.0	-31.0"
TRAJ: 600 yds. zero	-1.5"	19.6"	34.1"	41.0"	38.8"	25.9"	0.0
VELOCITY (fps)	2400	2216	2041	1874	1716	1569	1434
ENERGY (ft.-lbs.)	2302	1963	1664	1403	1176	983	821
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-19.5"	-43.4"	-79.2"	-129.1"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.2"	-32.2"	-65.2"	-112.3"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.4"	0.0	-17.4"	-46.6"	-90.0"
TRAJ: 400 yds. zero	-1.5"	10.9"	16.1"	13.0"	0.0	-24.9"	-63.9"
TRAJ: 500 yds. zero	-1.5"	15.8"	26.1"	27.9"	19.9"	0.0	-34.1"
TRAJ: 600 yds. zero	-1.5"	21.5"	37.4"	45.0"	42.6"	28.4"	0.0
VELOCITY (fps)	2300	2121	1949	1787	1635	1494	1367
ENERGY (ft.-lbs.)	2114	1797	1519	1276	1068	892	747
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-21.7"	-48.0"	-87.4"	-142.4"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.3"	-35.5"	-71.7"	-123.6"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.2"	0.0	-19.1"	-51.3"	-99.0"
TRAJ: 400 yds. zero	-1.5"	12.0"	17.7"	14.3"	0.0	-27.4"	-70.4"
TRAJ: 500 yds. zero	-1.5"	17.5"	28.7"	30.8"	21.9"	0.0	-37.5"
TRAJ: 600 yds. zero	-1.5"	23.7"	41.2"	49.5"	46.9"	31.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2200	2025	1859	1702	1556	1422	1303
ENERGY (ft.-lbs.)	1934	1639	1381	1157	967	808	679
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-24.1"	-53.2"	-96.7"	-157.5"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.6"	-39.2"	-79.2"	-136.5"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.1"	0.0	-21.1"	-56.6"	-109.4"
TRAJ: 400 yds. zero	-1.5"	13.3"	19.6"	15.8"	0.0	-30.2"	-77.7"
TRAJ: 500 yds. zero	-1.5"	19.3"	31.7"	34.0"	24.2"	0.0	-41.4"
TRAJ: 600 yds. zero	-1.5"	26.3"	45.5"	54.7"	51.8"	34.5"	0.0
VELOCITY (fps)	2100	1930	1769	1618	1479	1353	1243
ENERGY (ft.-lbs.)	1762	1488	1250	1046	874	731	618
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-26.8"	-59.2"	-107.4"	-174.8"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-15.1"	-43.4"	-87.8"	-151.2"
TRAJ: 300 yds. zero	-1.5"	8.9"	10.0"	0.0	-23.4"	-62.7"	-121.1"
TRAJ: 400 yds. zero	-1.5"	14.8"	21.7"	17.5"	0.0	-33.5"	-86.0"
TRAJ: 500 yds. zero	-1.5"	21.5"	35.1"	37.6"	26.8"	0.0	-45.9"
TRAJ: 600 yds. zero	-1.5"	29.1"	50.4"	60.5"	57.4"	38.2"	0.0
VELOCITY (fps)	2000	1835	1680	1535	1404	1287	1188
ENERGY (ft.-lbs.)	1598	1346	1127	942	787	662	564
TRAJ: 100 yds. zero	-1.5"	0.0	-8.8"	-30.0"	-66.0"	-119.7"	-194.5"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-16.8"	-48.4"	-97.6"	-167.9"
TRAJ: 300 yds. zero	-1.5"	10.0"	11.2"	0.0	-26.0"	-69.6"	-134.4"
TRAJ: 400 yds. zero	-1.5"	16.5"	24.2"	19.5"	0.0	-37.2"	-95.4"
TRAJ: 500 yds. zero	-1.5"	23.9"	39.0"	41.8"	29.7"	0.0	-50.8"
TRAJ: 600 yds. zero	-1.5"	32.4"	56.0"	67.2"	63.6"	42.3"	0.0
VELOCITY (fps)	1900	1741	1592	1455	1332	1225	1138
ENERGY (ft.-lbs.)	1443	1211	1012	846	709	600	517
TRAJ: 100 yds. zero	-1.5"	0.0	-10.0"	-33.8"	-74.0"	-133.9"	-217.0"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-18.8"	-54.0"	-108.9"	-187.0"
TRAJ: 300 yds. zero	-1.5"	11.3"	12.5"	0.0	-29.0"	-77.6"	-149.4"
TRAJ: 400 yds. zero	-1.5"	18.5"	27.0"	21.7"	0.0	-41.4"	-106.0"
TRAJ: 500 yds. zero	-1.5"	26.8"	43.5"	46.6"	33.1"	0.0	-56.3"
TRAJ: 600 yds. zero	-1.5"	36.2"	62.3"	74.7"	70.7"	46.9"	0.0
VELOCITY (fps)	1800	1647	1505	1377	1264	1169	1093
ENERGY (ft.-lbs.)	1295	1084	905	757	638	546	478
TRAJ: 100 yds. zero	-1.5"	0.0	-11.3"	-38.1"	-83.2"	-150.1"	-242.5"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-21.0"	-60.5"	-121.7"	-208.4"
TRAJ: 300 yds. zero	-1.5"	12.7"	14.0"	0.0	-32.4"	-86.6"	-166.3"
TRAJ: 400 yds. zero	-1.5"	20.8"	30.2"	24.3"	0.0	-46.1"	-117.7"
TRAJ: 500 yds. zero	-1.5"	30.0"	48.7"	52.0"	36.9"	0.0	-62.4"
TRAJ: 600 yds. zero	-1.5"	40.4"	69.5"	83.2"	78.5"	52.0"	0.0
VELOCITY (fps)	1700	1554	1421	1302	1200	1118	1054
ENERGY (ft.-lbs.)	1155	965	806	677	576	500	444
TRAJ: 100 yds. zero	-1.5"	0.0	-12.9"	-43.1"	-93.8"	-168.7"	-271.2"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-23.7"	-68.0"	-136.4"	-232.4"
TRAJ: 300 yds. zero	-1.5"	14.4"	15.8"	0.0	-36.4"	-96.9"	-185.0"
TRAJ: 400 yds. zero	-1.5"	23.5"	34.0"	27.3"	0.0	-51.4"	-130.5"
TRAJ: 500 yds. zero	-1.5"	33.7"	54.6"	58.1"	41.1"	0.0	-68.8"
TRAJ: 600 yds. zero	-1.5"	45.2"	77.5"	92.5"	87.0"	57.3"	0.0
VELOCITY (fps)	1600	1462	1339	1231	1143	1073	1018
ENERGY (ft.-lbs.)	1023	854	716	606	522	460	414
TRAJ: 100 yds. zero	-1.5"	0.0	-14.8"	-49.0"	-106.2"	-189.9"	-303.4"
TRAJ: 200 yds. zero	-1.5"	7.4"	0.0	-26.8"	-76.6"	-152.9"	-259.0"
TRAJ: 300 yds. zero	-1.5"	16.3"	17.9"	0.0	-40.8"	-108.2"	-205.4"
TRAJ: 400 yds. zero	-1.5"	26.5"	38.3"	30.6"	0.0	-57.2"	-144.1"
TRAJ: 500 yds. zero	-1.5"	38.0"	61.2"	64.9"	45.8"	0.0	-75.5"
TRAJ: 600 yds. zero	-1.5"	50.6"	86.3"	102.7"	96.1"	62.9"	0.0
VELOCITY (fps)	1500	1372	1260	1166	1091	1033	986
ENERGY (ft.-lbs.)	899	752	634	543	476	426	388
TRAJ: 100 yds. zero	-1.5"	0.0	-17.0"	-55.9"	-120.4"	-213.8"	-339.2"
TRAJ: 200 yds. zero	-1.5"	8.5"	0.0	-30.4"	-86.4"	-171.3"	-288.3"
TRAJ: 300 yds. zero	-1.5"	18.6"	20.3"	0.0	-45.8"	-120.6"	-227.4"
TRAJ: 400 yds. zero	-1.5"	30.1"	43.2"	34.4"	0.0	-63.4"	-158.7"
TRAJ: 500 yds. zero	-1.5"	42.8"	68.5"	72.4"	50.7"	0.0	-82.7"
TRAJ: 600 yds. zero	-1.5"	56.5"	96.1"	113.7"	105.8"	68.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1400	1284	1185	1106	1045	996	955
ENERGY (ft.-lbs.)	783	659	562	489	436	396	364
TRAJ: 100 yds. zero	-1.5"	0.0	-19.6"	-63.9"	-136.5"	-240.6"	-378.9"
TRAJ: 200 yds. zero	-1.5"	9.8"	0.0	-34.5"	-97.3"	-191.6"	-320.1"
TRAJ: 300 yds. zero	-1.5"	21.3"	23.0"	0.0	-51.3"	-134.0"	-251.1"
TRAJ: 400 yds. zero	-1.5"	34.1"	48.7"	38.5"	0.0	-69.9"	-174.1"
TRAJ: 500 yds. zero	-1.5"	48.1"	76.6"	80.4"	55.9"	0.0	-90.2"
TRAJ: 600 yds. zero	-1.5"	63.1"	106.7"	125.5"	116.1"	75.2"	0.0

30 CALIBER (.308" Dia.) 180 GRAIN ROUND NOSE
SECTIONAL DENSITY: .271 BALLISTIC COEFFICIENT: .241

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2797	2427	2087	1777	1502	1274
ENERGY (ft.-lbs.)	4092	3125	2354	1741	1261	902	649
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.9"	-28.9"	-57.0"	-100.7"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.4"	-22.9"	-49.5"	-91.8"
TRAJ: 300 yds. zero	-1.5"	4.0"	5.0"	0.0	-13.0"	-37.1"	-76.9"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.5"	9.8"	0.0	-20.9"	-57.4"
TRAJ: 500 yds. zero	-1.5"	11.4"	19.8"	22.3"	16.7"	0.0	-32.4"
TRAJ: 600 yds. zero	-1.5"	16.8"	30.6"	38.5"	38.3"	27.0"	0.0
VELOCITY (fps)	3100	2705	2343	2010	1707	1443	1229
ENERGY (ft.-lbs.)	3840	2925	2194	1615	1165	832	603
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.9"	-31.3"	-61.7"	-109.1"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-8.0"	-24.7"	-53.5"	-99.2"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.3"	0.0	-14.0"	-40.1"	-83.2"
TRAJ: 400 yds. zero	-1.5"	7.8"	12.4"	10.5"	0.0	-22.6"	-62.2"
TRAJ: 500 yds. zero	-1.5"	12.3"	21.4"	24.1"	18.1"	0.0	-35.0"
TRAJ: 600 yds. zero	-1.5"	18.2"	33.1"	41.6"	41.4"	29.2"	0.0
VELOCITY (fps)	3000	2614	2259	1933	1639	1385	1186
ENERGY (ft.-lbs.)	3597	2731	2040	1493	1073	767	562
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-14.1"	-34.0"	-67.0"	-118.4"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.7"	-26.8"	-58.0"	-107.5"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.8"	0.0	-15.2"	-43.5"	-90.2"
TRAJ: 400 yds. zero	-1.5"	8.5"	13.4"	11.4"	0.0	-24.5"	-67.4"
TRAJ: 500 yds. zero	-1.5"	13.4"	23.2"	26.1"	19.6"	0.0	-38.0"
TRAJ: 600 yds. zero	-1.5"	19.7"	35.8"	45.1"	44.9"	31.7"	0.0
VELOCITY (fps)	2900	2522	2175	1856	1571	1329	1146
ENERGY (ft.-lbs.)	3361	2542	1890	1376	986	706	525
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-15.4"	-37.0"	-72.9"	-128.8"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.4"	-29.0"	-62.9"	-116.8"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.3"	0.0	-16.5"	-47.2"	-98.0"
TRAJ: 400 yds. zero	-1.5"	9.3"	14.5"	12.4"	0.0	-26.6"	-73.2"
TRAJ: 500 yds. zero	-1.5"	14.6"	25.2"	28.3"	21.3"	0.0	-41.3"
TRAJ: 600 yds. zero	-1.5"	21.5"	38.9"	49.0"	48.8"	34.4"	0.0
VELOCITY (fps)	2800	2430	2090	1779	1504	1276	1110
ENERGY (ft.-lbs.)	3133	2361	1746	1265	904	651	492
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-16.9"	-40.5"	-79.6"	-140.3"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-10.2"	-31.6"	-68.5"	-127.1"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.8"	0.0	-17.9"	-51.5"	-106.6"
TRAJ: 400 yds. zero	-1.5"	10.1"	15.8"	13.5"	0.0	-29.0"	-79.7"
TRAJ: 500 yds. zero	-1.5"	15.9"	27.4"	30.9"	23.2"	0.0	-44.8"
TRAJ: 600 yds. zero	-1.5"	23.4"	42.4"	53.3"	53.1"	37.3"	0.0
VELOCITY (fps)	2700	2338	2005	1703	1439	1226	1077
ENERGY (ft.-lbs.)	2913	2185	1607	1159	828	601	464
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-18.5"	-44.3"	-87.1"	-153.2"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-11.2"	-34.5"	-74.8"	-138.4"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.5"	0.0	-19.6"	-56.2"	-116.1"
TRAJ: 400 yds. zero	-1.5"	11.1"	17.2"	14.7"	0.0	-31.7"	-86.7"
TRAJ: 500 yds. zero	-1.5"	17.4"	29.9"	33.7"	25.4"	0.0	-48.7"
TRAJ: 600 yds. zero	-1.5"	25.5"	46.1"	58.0"	57.8"	40.5"	0.0
VELOCITY (fps)	2600	2246	1921	1628	1376	1179	1048
ENERGY (ft.-lbs.)	2701	2016	1475	1059	757	556	439
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-20.4"	-48.6"	-95.5"	-167.3"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-12.2"	-37.7"	-81.8"	-150.9"
TRAJ: 300 yds. zero	-1.5"	6.8"	8.2"	0.0	-21.4"	-61.4"	-126.5"
TRAJ: 400 yds. zero	-1.5"	12.2"	18.9"	16.1"	0.0	-34.7"	-94.3"
TRAJ: 500 yds. zero	-1.5"	19.1"	32.7"	36.9"	27.7"	0.0	-52.7"
TRAJ: 600 yds. zero	-1.5"	27.9"	50.3"	63.2"	62.9"	43.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2500	2154	1837	1555	1316	1137	1021
ENERGY (ft.-lbs.)	2498	1854	1349	966	692	517	417
TRAJ: 100 yds. zero	-1.5"	0.0	-6.1"	-22.5"	-53.5"	-104.9"	-182.8"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-13.4"	-41.4"	-89.7"	-164.6"
TRAJ: 300 yds. zero	-1.5"	7.5"	9.0"	0.0	-23.5"	-67.3"	-137.8"
TRAJ: 400 yds. zero	-1.5"	13.4"	20.7"	17.6"	0.0	-37.9"	-102.5"
TRAJ: 500 yds. zero	-1.5"	21.0"	35.9"	40.4"	30.3"	0.0	-57.0"
TRAJ: 600 yds. zero	-1.5"	30.5"	54.9"	68.9"	68.3"	47.5"	0.0
VELOCITY (fps)	2400	2062	1754	1483	1259	1099	996
ENERGY (ft.-lbs.)	2302	1699	1230	878	634	482	397
TRAJ: 100 yds. zero	-1.5"	0.0	-6.8"	-24.9"	-59.1"	-115.4"	-199.8"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-14.8"	-45.6"	-98.5"	-179.5"
TRAJ: 300 yds. zero	-1.5"	8.3"	9.9"	0.0	-25.9"	-73.8"	-150.0"
TRAJ: 400 yds. zero	-1.5"	14.8"	22.8"	19.4"	0.0	-41.5"	-111.2"
TRAJ: 500 yds. zero	-1.5"	23.1"	39.4"	44.3"	33.2"	0.0	-61.4"
TRAJ: 600 yds. zero	-1.5"	33.3"	59.8"	75.0"	74.1"	51.1"	0.0
VELOCITY (fps)	2300	1970	1672	1413	1206	1065	973
ENERGY (ft.-lbs.)	2114	1551	1117	798	581	453	379
TRAJ: 100 yds. zero	-1.5"	0.0	-7.5"	-27.6"	-65.4"	-127.1"	-218.3"
TRAJ: 200 yds. zero	-1.5"	3.8"	0.0	-16.3"	-50.3"	-108.2"	-195.7"
TRAJ: 300 yds. zero	-1.5"	9.2"	10.9"	0.0	-28.5"	-81.0"	-163.0"
TRAJ: 400 yds. zero	-1.5"	16.3"	25.1"	21.4"	0.0	-45.3"	-120.3"
TRAJ: 500 yds. zero	-1.5"	25.4"	43.3"	48.6"	36.3"	0.0	-65.8"
TRAJ: 600 yds. zero	-1.5"	36.4"	65.2"	81.5"	80.2"	54.9"	0.0
VELOCITY (fps)	2200	1879	1591	1346	1158	1034	952
ENERGY (ft.-lbs.)	1934	1411	1012	724	535	427	362
TRAJ: 100 yds. zero	-1.5"	0.0	-8.4"	-30.8"	-72.5"	-140.0"	-238.4"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-18.1"	-55.6"	-118.9"	-213.1"
TRAJ: 300 yds. zero	-1.5"	10.3"	12.1"	0.0	-31.4"	-88.7"	-176.9"
TRAJ: 400 yds. zero	-1.5"	18.1"	27.8"	23.6"	0.0	-49.4"	-129.7"
TRAJ: 500 yds. zero	-1.5"	28.0"	47.5"	53.2"	39.5"	0.0	-70.4"
TRAJ: 600 yds. zero	-1.5"	39.7"	71.0"	88.4"	86.5"	58.7"	0.0
VELOCITY (fps)	2100	1788	1512	1282	1114	1006	931
ENERGY (ft.-lbs.)	1762	1278	914	657	496	405	347
TRAJ: 100 yds. zero	-1.5"	0.0	-9.5"	-34.3"	-80.4"	-154.2"	-260.2"
TRAJ: 200 yds. zero	-1.5"	4.7"	0.0	-20.1"	-61.5"	-130.5"	-231.8"
TRAJ: 300 yds. zero	-1.5"	11.4"	13.4"	0.0	-34.7"	-97.0"	-191.6"
TRAJ: 400 yds. zero	-1.5"	20.1"	30.7"	26.0"	0.0	-53.6"	-139.5"
TRAJ: 500 yds. zero	-1.5"	30.8"	52.2"	58.2"	42.9"	0.0	-75.2"
TRAJ: 600 yds. zero	-1.5"	43.4"	77.3"	95.8"	93.0"	62.6"	0.0
VELOCITY (fps)	2000	1698	1435	1223	1075	981	912
ENERGY (ft.-lbs.)	1598	1153	823	598	462	384	332
TRAJ: 100 yds. zero	-1.5"	0.0	-10.7"	-38.4"	-89.4"	-169.7"	-283.7"
TRAJ: 200 yds. zero	-1.5"	5.3"	0.0	-22.4"	-68.1"	-143.0"	-251.7"
TRAJ: 300 yds. zero	-1.5"	12.8"	14.9"	0.0	-38.2"	-105.7"	-207.0"
TRAJ: 400 yds. zero	-1.5"	22.3"	34.0"	28.7"	0.0	-58.0"	-149.7"
TRAJ: 500 yds. zero	-1.5"	33.9"	57.2"	63.4"	46.4"	0.0	-80.1"
TRAJ: 600 yds. zero	-1.5"	47.3"	83.9"	103.5"	99.8"	66.8"	0.0
VELOCITY (fps)	1900	1610	1361	1168	1041	957	893
ENERGY (ft.-lbs.)	1443	1035	740	545	433	366	319
TRAJ: 100 yds. zero	-1.5"	0.0	-12.0"	-43.0"	-99.3"	-186.6"	-309.2"
TRAJ: 200 yds. zero	-1.5"	6.0"	0.0	-24.9"	-75.2"	-156.5"	-273.1"
TRAJ: 300 yds. zero	-1.5"	14.3"	16.6"	0.0	-42.0"	-115.0"	-223.2"
TRAJ: 400 yds. zero	-1.5"	24.8"	37.6"	31.5"	0.0	-62.5"	-160.2"
TRAJ: 500 yds. zero	-1.5"	37.3"	62.6"	69.0"	50.0"	0.0	-85.3"
TRAJ: 600 yds. zero	-1.5"	51.5"	91.0"	111.6"	106.8"	71.0"	0.0
VELOCITY (fps)	1800	1522	1290	1119	1010	934	874
ENERGY (ft.-lbs.)	1295	926	665	501	407	349	305
TRAJ: 100 yds. zero	-1.5"	0.0	-13.6"	-48.3"	-110.3"	-205.0"	-336.7"
TRAJ: 200 yds. zero	-1.5"	6.8"	0.0	-27.8"	-83.1"	-170.9"	-295.8"
TRAJ: 300 yds. zero	-1.5"	16.1"	18.5"	0.0	-46.0"	-124.6"	-240.2"
TRAJ: 400 yds. zero	-1.5"	27.6"	41.5"	34.5"	0.0	-67.1"	-171.2"
TRAJ: 500 yds. zero	-1.5"	41.0"	68.4"	74.7"	53.7"	0.0	-90.7"
TRAJ: 600 yds. zero	-1.5"	56.1"	98.6"	120.1"	114.1"	75.6"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1436	1224	1076	981	912	856
ENERGY (ft.-lbs.)	1155	825	599	463	385	332	293
TRAJ: 100 yds. zero	-1.5"	0.0	-15.5"	-54.2"	-122.4"	-224.9"	-366.4"
TRAJ: 200 yds. zero	-1.5"	7.7"	0.0	-31.0"	-91.4"	-186.2"	-319.9"
TRAJ: 300 yds. zero	-1.5"	18.1"	20.7"	0.0	-50.1"	-134.6"	-258.0"
TRAJ: 400 yds. zero	-1.5"	30.6"	45.7"	37.6"	0.0	-72.0"	-182.8"
TRAJ: 500 yds. zero	-1.5"	45.0"	74.5"	80.8"	57.6"	0.0	-96.5"
TRAJ: 600 yds. zero	-1.5"	61.1"	106.6"	129.0"	121.9"	80.4"	0.0
VELOCITY (fps)	1600	1353	1163	1037	954	891	838
ENERGY (ft.-lbs.)	1023	732	540	430	364	317	280
TRAJ: 100 yds. zero	-1.5"	0.0	-17.6"	-60.8"	-135.5"	-246.5"	-398.5"
TRAJ: 200 yds. zero	-1.5"	8.8"	0.0	-34.4"	-100.3"	-202.5"	-345.7"
TRAJ: 300 yds. zero	-1.5"	20.3"	22.9"	0.0	-54.4"	-145.1"	-276.8"
TRAJ: 400 yds. zero	-1.5"	33.9"	50.2"	40.8"	0.0	-77.1"	-195.2"
TRAJ: 500 yds. zero	-1.5"	49.3"	81.0"	87.1"	61.7"	0.0	-102.7"
TRAJ: 600 yds. zero	-1.5"	66.4"	115.2"	138.4"	130.1"	85.6"	0.0
VELOCITY (fps)	1500	1273	1108	1002	928	870	819
ENERGY (ft.-lbs.)	899	647	490	401	344	302	268
TRAJ: 100 yds. zero	-1.5"	0.0	-20.0"	-68.1"	-149.8"	-270.0"	-433.3"
TRAJ: 200 yds. zero	-1.5"	10.0"	0.0	-38.1"	-109.8"	-219.9"	-373.2"
TRAJ: 300 yds. zero	-1.5"	22.7"	25.4"	0.0	-59.0"	-156.4"	-297.1"
TRAJ: 400 yds. zero	-1.5"	37.5"	54.9"	44.2"	0.0	-82.7"	-208.6"
TRAJ: 500 yds. zero	-1.5"	54.0"	88.0"	93.8"	66.1"	0.0	-109.4"
TRAJ: 600 yds. zero	-1.5"	72.2"	124.4"	148.5"	139.1"	91.2"	0.0
VELOCITY (fps)	1400	1197	1059	969	903	848	801
ENERGY (ft.-lbs.)	783	572	448	375	326	287	256
TRAJ: 100 yds. zero	-1.5"	0.0	-22.8"	-76.1"	-165.4"	-295.6"	-471.5"
TRAJ: 200 yds. zero	-1.5"	11.4"	0.0	-42.0"	-119.9"	-238.7"	-403.3"
TRAJ: 300 yds. zero	-1.5"	25.4"	28.0"	0.0	-63.9"	-168.7"	-319.3"
TRAJ: 400 yds. zero	-1.5"	41.4"	60.0"	48.0"	0.0	-88.8"	-223.4"
TRAJ: 500 yds. zero	-1.5"	59.1"	95.5"	101.2"	71.0"	0.0	-116.8"
TRAJ: 600 yds. zero	-1.5"	78.6"	134.4"	159.6"	148.9"	97.4"	0.0

30 CALIBER (.308" Dia.) 190 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .286 BALLISTIC COEFFICIENT: .530

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2916	2740	2570	2407	2249	2098
ENERGY (ft.-lbs.)	4054	3587	3166	2786	2443	2134	1856
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-9.8"	-22.3"	-40.8"	-66.2"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-5.9"	-17.1"	-34.3"	-58.4"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.0"	0.0	-9.2"	-24.4"	-46.5"
TRAJ: 400 yds. zero	-1.5"	5.6"	8.6"	6.9"	0.0	-12.9"	-32.7"
TRAJ: 500 yds. zero	-1.5"	8.2"	13.7"	14.7"	10.3"	0.0	-17.2"
TRAJ: 600 yds. zero	-1.5"	11.0"	19.5"	23.3"	21.8"	14.3"	0.0
VELOCITY (fps)	3000	2820	2648	2481	2321	2167	2019
ENERGY (ft.-lbs.)	3796	3355	2957	2597	2273	1981	1719
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-10.7"	-24.2"	-44.1"	-71.5"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.4"	-18.4"	-37.0"	-62.9"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.3"	0.0	-9.9"	-26.3"	-50.1"
TRAJ: 400 yds. zero	-1.5"	6.0"	9.2"	7.4"	0.0	-13.9"	-35.2"
TRAJ: 500 yds. zero	-1.5"	8.8"	14.8"	15.8"	11.1"	0.0	-18.5"
TRAJ: 600 yds. zero	-1.5"	11.9"	21.0"	25.0"	23.5"	15.4"	0.0
VELOCITY (fps)	2900	2724	2555	2392	2236	2084	1939
ENERGY (ft.-lbs.)	3547	3130	2754	2414	2108	1833	1587
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-11.7"	-26.3"	-47.9"	-77.4"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-6.9"	-19.9"	-39.9"	-67.9"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.6"	0.0	-10.7"	-28.3"	-54.0"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.0"	8.0"	0.0	-15.0"	-38.0"
TRAJ: 500 yds. zero	-1.5"	9.6"	16.0"	17.0"	12.0"	0.0	-20.0"
TRAJ: 600 yds. zero	-1.5"	12.9"	22.6"	27.0"	25.3"	16.7"	0.0
VELOCITY (fps)	2800	2628	2463	2303	2150	2002	1861
ENERGY (ft.-lbs.)	3307	2913	2558	2238	1949	1690	1460
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-12.8"	-28.6"	-52.0"	-84.1"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.5"	-21.6"	-43.2"	-73.4"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.0"	0.0	-11.6"	-30.7"	-58.4"
TRAJ: 400 yds. zero	-1.5"	7.2"	10.8"	8.7"	0.0	-16.2"	-41.1"
TRAJ: 500 yds. zero	-1.5"	10.4"	17.3"	18.4"	13.0"	0.0	-21.6"
TRAJ: 600 yds. zero	-1.5"	14.0"	24.5"	29.2"	27.4"	18.0"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2532	2370	2214	2064	1920	1782
ENERGY (ft.-lbs.)	3075	2704	2369	2067	1796	1554	1340
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.1"	-31.3"	-56.7"	-91.5"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.2"	-23.4"	-46.9"	-79.7"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.4"	0.0	-12.5"	-33.3"	-63.4"
TRAJ: 400 yds. zero	-1.5"	7.8"	11.7"	9.4"	0.0	-17.6"	-44.6"
TRAJ: 500 yds. zero	-1.5"	11.3"	18.7"	20.0"	14.1"	0.0	-23.5"
TRAJ: 600 yds. zero	-1.5"	15.3"	26.6"	31.7"	29.7"	19.6"	0.0
VELOCITY (fps)	2600	2436	2277	2124	1978	1838	1704
ENERGY (ft.-lbs.)	2851	2502	2187	1904	1650	1424	1225
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-15.4"	-34.2"	-61.9"	-99.9"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-8.9"	-25.5"	-51.0"	-86.8"
TRAJ: 300 yds. zero	-1.5"	5.1"	5.9"	0.0	-13.6"	-36.2"	-69.0"
TRAJ: 400 yds. zero	-1.5"	8.6"	12.7"	10.2"	0.0	-19.1"	-48.6"
TRAJ: 500 yds. zero	-1.5"	12.4"	20.4"	21.7"	15.3"	0.0	-25.6"
TRAJ: 600 yds. zero	-1.5"	16.7"	28.9"	34.5"	32.4"	21.4"	0.0
VELOCITY (fps)	2500	2339	2184	2035	1892	1756	1627
ENERGY (ft.-lbs.)	2636	2308	2012	1747	1510	1301	1117
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-17.0"	-37.6"	-67.9"	-109.4"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-9.7"	-27.9"	-55.7"	-94.9"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.5"	0.0	-14.9"	-39.5"	-75.4"
TRAJ: 400 yds. zero	-1.5"	9.4"	13.9"	11.2"	0.0	-20.9"	-53.1"
TRAJ: 500 yds. zero	-1.5"	13.6"	22.3"	23.7"	16.7"	0.0	-28.0"
TRAJ: 600 yds. zero	-1.5"	18.2"	31.6"	37.7"	35.4"	23.3"	0.0
VELOCITY (fps)	2400	2243	2091	1946	1807	1676	1552
ENERGY (ft.-lbs.)	2430	2122	1845	1598	1378	1185	1016
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-18.8"	-41.4"	-74.6"	-120.2"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-10.7"	-30.5"	-61.0"	-104.0"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.1"	0.0	-16.3"	-43.3"	-82.6"
TRAJ: 400 yds. zero	-1.5"	10.3"	15.3"	12.2"	0.0	-22.9"	-58.2"
TRAJ: 500 yds. zero	-1.5"	14.9"	24.4"	26.0"	18.3"	0.0	-30.7"
TRAJ: 600 yds. zero	-1.5"	20.0"	34.7"	41.3"	38.8"	25.6"	0.0
VELOCITY (fps)	2300	2147	1999	1858	1723	1597	1479
ENERGY (ft.-lbs.)	2231	1944	1685	1456	1253	1075	922
TRAJ: 100 yds. zero	-1.5"	0.0	-6.1"	-20.8"	-45.7"	-82.3"	-132.5"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-11.7"	-33.6"	-67.1"	-114.4"
TRAJ: 300 yds. zero	-1.5"	6.9"	7.8"	0.0	-17.9"	-47.6"	-90.9"
TRAJ: 400 yds. zero	-1.5"	11.4"	16.8"	13.4"	0.0	-25.2"	-64.0"
TRAJ: 500 yds. zero	-1.5"	16.5"	26.8"	28.5"	20.1"	0.0	-33.8"
TRAJ: 600 yds. zero	-1.5"	22.1"	38.1"	45.4"	42.7"	28.2"	0.0
VELOCITY (fps)	2200	2050	1907	1770	1640	1519	1407
ENERGY (ft.-lbs.)	2042	1773	1534	1321	1135	974	836
TRAJ: 100 yds. zero	-1.5"	0.0	-6.8"	-23.1"	-50.6"	-91.0"	-146.6"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-13.0"	-37.0"	-74.1"	-126.2"
TRAJ: 300 yds. zero	-1.5"	7.7"	8.6"	0.0	-19.8"	-52.5"	-100.3"
TRAJ: 400 yds. zero	-1.5"	12.7"	18.5"	14.8"	0.0	-27.8"	-70.6"
TRAJ: 500 yds. zero	-1.5"	18.2"	29.6"	31.5"	22.2"	0.0	-37.3"
TRAJ: 600 yds. zero	-1.5"	24.4"	42.1"	50.1"	47.1"	31.1"	0.0

30 CALIBER (.308" Dia.) 190 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .286 BALLISTIC COEFFICIENT: .491

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2902	2712	2531	2356	2188	2028
ENERGY (ft.-lbs.)	4054	3552	3103	2701	2342	2020	1734
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.0"	-22.8"	-41.8"	-68.2"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.0"	-17.5"	-35.3"	-60.3"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.0"	0.0	-9.5"	-25.2"	-48.2"
TRAJ: 400 yds. zero	-1.5"	5.7"	8.8"	7.1"	0.0	-13.4"	-34.0"
TRAJ: 500 yds. zero	-1.5"	8.4"	14.1"	15.1"	10.7"	0.0	-18.0"
TRAJ: 600 yds. zero	-1.5"	11.4"	20.1"	24.1"	22.7"	15.0"	0.0
VELOCITY (fps)	3000	2806	2621	2443	2272	2107	1950
ENERGY (ft.-lbs.)	3796	3322	2897	2517	2177	1873	1604
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-10.9"	-24.7"	-45.3"	-73.7"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.5"	-18.9"	-38.0"	-64.9"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.4"	0.0	-10.2"	-27.1"	-51.9"
TRAJ: 400 yds. zero	-1.5"	6.2"	9.4"	7.6"	0.0	-14.4"	-36.6"
TRAJ: 500 yds. zero	-1.5"	9.1"	15.2"	16.3"	11.5"	0.0	-19.3"
TRAJ: 600 yds. zero	-1.5"	12.3"	21.6"	25.9"	24.4"	16.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2711	2529	2355	2187	2026	1873
ENERGY (ft.-lbs.)	3547	3099	2698	2338	2017	1732	1479
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-11.9"	-26.9"	-49.1"	-79.8"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.1"	-20.4"	-41.0"	-70.1"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.7"	0.0	-11.0"	-29.2"	-56.0"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.2"	8.2"	0.0	-15.5"	-39.5"
TRAJ: 500 yds. zero	-1.5"	9.8"	16.4"	17.5"	12.4"	0.0	-20.9"
TRAJ: 600 yds. zero	-1.5"	13.3"	23.4"	28.0"	26.3"	17.4"	0.0
VELOCITY (fps)	2800	2615	2437	2266	2102	1945	1796
ENERGY (ft.-lbs.)	3307	2884	2505	2166	1864	1596	1360
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.0"	-29.3"	-53.4"	-86.7"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.7"	-22.1"	-44.4"	-75.9"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.1"	0.0	-11.9"	-31.6"	-60.6"
TRAJ: 400 yds. zero	-1.5"	7.3"	11.0"	8.9"	0.0	-16.8"	-42.8"
TRAJ: 500 yds. zero	-1.5"	10.7"	17.8"	19.0"	13.4"	0.0	-22.6"
TRAJ: 600 yds. zero	-1.5"	14.4"	25.3"	30.3"	28.5"	18.9"	0.0
VELOCITY (fps)	2700	2519	2345	2178	2017	1864	1719
ENERGY (ft.-lbs.)	3075	2676	2319	2000	1716	1466	1246
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.3"	-32.0"	-58.2"	-94.4"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.3"	-24.0"	-48.2"	-82.5"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.5"	0.0	-12.9"	-34.3"	-65.8"
TRAJ: 400 yds. zero	-1.5"	8.0"	12.0"	9.7"	0.0	-18.2"	-46.5"
TRAJ: 500 yds. zero	-1.5"	11.6"	19.3"	20.6"	14.6"	0.0	-24.6"
TRAJ: 600 yds. zero	-1.5"	15.7"	27.5"	32.9"	31.0"	20.5"	0.0
VELOCITY (fps)	2600	2423	2252	2089	1933	1784	1643
ENERGY (ft.-lbs.)	2851	2476	2140	1841	1575	1342	1139
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-15.7"	-35.0"	-63.6"	-103.1"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.1"	-26.1"	-52.5"	-89.9"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.1"	0.0	-14.0"	-37.4"	-71.7"
TRAJ: 400 yds. zero	-1.5"	8.7"	13.1"	10.5"	0.0	-19.8"	-50.7"
TRAJ: 500 yds. zero	-1.5"	12.7"	21.0"	22.4"	15.9"	0.0	-26.8"
TRAJ: 600 yds. zero	-1.5"	17.2"	30.0"	35.9"	33.8"	22.4"	0.0
VELOCITY (fps)	2500	2327	2160	2001	1848	1704	1569
ENERGY (ft.-lbs.)	2636	2283	1968	1688	1441	1225	1038
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-17.3"	-38.4"	-69.7"	-113.0"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-9.9"	-28.6"	-57.4"	-98.2"
TRAJ: 300 yds. zero	-1.5"	5.8"	6.6"	0.0	-15.3"	-40.8"	-78.4"
TRAJ: 400 yds. zero	-1.5"	9.6"	14.3"	11.5"	0.0	-21.7"	-55.4"
TRAJ: 500 yds. zero	-1.5"	13.9"	23.0"	24.5"	17.4"	0.0	-29.4"
TRAJ: 600 yds. zero	-1.5"	18.8"	32.7"	39.2"	36.9"	24.5"	0.0
VELOCITY (fps)	2400	2231	2068	1913	1765	1626	1496
ENERGY (ft.-lbs.)	2430	2099	1804	1543	1314	1115	944
TRAJ: 100 yds. zero	-1.5"	0.0	-5.5"	-19.1"	-42.3"	-76.6"	-124.2"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-10.9"	-31.3"	-62.9"	-107.7"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.3"	0.0	-16.8"	-44.8"	-85.9"
TRAJ: 400 yds. zero	-1.5"	10.6"	15.7"	12.6"	0.0	-23.8"	-60.8"
TRAJ: 500 yds. zero	-1.5"	15.3"	25.2"	26.9"	19.0"	0.0	-32.2"
TRAJ: 600 yds. zero	-1.5"	20.7"	35.9"	43.0"	40.5"	26.8"	0.0
VELOCITY (fps)	2300	2135	1976	1825	1682	1549	1426
ENERGY (ft.-lbs.)	2231	1922	1647	1405	1194	1012	858
TRAJ: 100 yds. zero	-1.5"	0.0	-6.1"	-21.2"	-46.7"	-84.5"	-136.9"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.0"	-34.4"	-69.2"	-118.5"
TRAJ: 300 yds. zero	-1.5"	7.1"	8.0"	0.0	-18.4"	-49.2"	-94.5"
TRAJ: 400 yds. zero	-1.5"	11.7"	17.2"	13.8"	0.0	-26.2"	-66.9"
TRAJ: 500 yds. zero	-1.5"	16.9"	27.7"	29.5"	20.9"	0.0	-35.5"
TRAJ: 600 yds. zero	-1.5"	22.8"	39.5"	47.3"	44.6"	29.6"	0.0
VELOCITY (fps)	2200	2039	1885	1738	1601	1474	1358
ENERGY (ft.-lbs.)	2042	1753	1498	1275	1081	916	778
TRAJ: 100 yds. zero	-1.5"	0.0	-6.9"	-23.6"	-51.8"	-93.6"	-151.5"
TRAJ: 200 yds. zero	-1.5"	3.4"	0.0	-13.2"	-38.0"	-76.4"	-130.8"
TRAJ: 300 yds. zero	-1.5"	7.9"	8.8"	0.0	-20.4"	-54.3"	-104.3"
TRAJ: 400 yds. zero	-1.5"	12.9"	19.0"	15.3"	0.0	-28.9"	-73.8"
TRAJ: 500 yds. zero	-1.5"	18.7"	30.6"	32.6"	23.1"	0.0	-39.2"
TRAJ: 600 yds. zero	-1.5"	25.2"	43.6"	52.2"	49.2"	32.6"	0.0

30 CALIBER (.308" Dia.) 220 GRAIN ROUND NOSE
SECTIONAL DENSITY: .331 BALLISTIC COEFFICIENT: .300

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2800	2501	2221	1959	1717	1500	1313
ENERGY (ft.-lbs.)	3829	3054	2408	1874	1440	1099	842
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-15.3"	-35.5"	-67.7"	-115.5"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.1"	-27.4"	-57.5"	-103.2"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.1"	0.0	-15.2"	-42.3"	-85.0"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.7"	11.4"	0.0	-23.3"	-62.2"
TRAJ: 500 yds. zero	-1.5"	13.5"	23.0"	25.4"	18.6"	0.0	-34.2"
TRAJ: 600 yds. zero	-1.5"	19.2"	34.4"	42.5"	41.5"	28.5"	0.0
VELOCITY (fps)	2700	2407	2133	1878	1643	1435	1260
ENERGY (ft.-lbs.)	3561	2830	2222	1722	1319	1006	775
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.7"	-38.9"	-74.0"	-126.2"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.9"	-29.8"	-62.7"	-112.6"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.6"	0.0	-16.6"	-46.1"	-92.7"
TRAJ: 400 yds. zero	-1.5"	9.7"	14.9"	12.4"	0.0	-25.4"	-67.9"
TRAJ: 500 yds. zero	-1.5"	14.8"	25.1"	27.7"	20.3"	0.0	-37.4"
TRAJ: 600 yds. zero	-1.5"	21.0"	37.5"	46.3"	45.2"	31.1"	0.0
VELOCITY (fps)	2600	2314	2045	1797	1571	1373	1210
ENERGY (ft.-lbs.)	3302	2614	2044	1577	1205	920	715
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-18.4"	-42.6"	-81.1"	-138.2"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.9"	-32.6"	-68.5"	-123.1"
TRAJ: 300 yds. zero	-1.5"	6.1"	7.2"	0.0	-18.1"	-50.4"	-101.4"
TRAJ: 400 yds. zero	-1.5"	10.7"	16.3"	13.6"	0.0	-27.8"	-74.2"
TRAJ: 500 yds. zero	-1.5"	16.2"	27.4"	30.2"	22.2"	0.0	-40.9"
TRAJ: 600 yds. zero	-1.5"	23.0"	41.0"	50.7"	49.5"	34.1"	0.0
VELOCITY (fps)	2500	2220	1958	1717	1499	1313	1164
ENERGY (ft.-lbs.)	3053	2407	1873	1439	1098	841	662
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-20.3"	-46.9"	-89.1"	-151.7"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.9"	-35.7"	-75.1"	-134.9"
TRAJ: 300 yds. zero	-1.5"	6.8"	7.9"	0.0	-19.8"	-55.3"	-111.1"
TRAJ: 400 yds. zero	-1.5"	11.7"	17.9"	14.9"	0.0	-30.5"	-81.3"
TRAJ: 500 yds. zero	-1.5"	17.8"	30.0"	33.2"	24.4"	0.0	-44.7"
TRAJ: 600 yds. zero	-1.5"	25.3"	45.0"	55.5"	54.2"	37.3"	0.0
VELOCITY (fps)	2400	2126	1871	1638	1430	1256	1123
ENERGY (ft.-lbs.)	2813	2208	1710	1310	999	770	616
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-22.5"	-51.7"	-98.1"	-166.8"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-13.1"	-39.3"	-82.6"	-148.1"
TRAJ: 300 yds. zero	-1.5"	7.5"	8.7"	0.0	-21.8"	-60.7"	-121.9"
TRAJ: 400 yds. zero	-1.5"	12.9"	19.6"	16.3"	0.0	-33.5"	-89.2"
TRAJ: 500 yds. zero	-1.5"	19.6"	33.0"	36.4"	26.8"	0.0	-49.0"
TRAJ: 600 yds. zero	-1.5"	27.8"	49.4"	60.9"	59.5"	40.8"	0.0
VELOCITY (fps)	2300	2033	1785	1560	1364	1203	1086
ENERGY (ft.-lbs.)	2584	2018	1556	1189	908	707	576
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-24.9"	-57.2"	-108.4"	-183.7"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-14.5"	-43.3"	-91.0"	-162.8"
TRAJ: 300 yds. zero	-1.5"	8.3"	9.6"	0.0	-24.0"	-66.9"	-133.9"
TRAJ: 400 yds. zero	-1.5"	14.3"	21.7"	18.0"	0.0	-36.9"	-97.9"
TRAJ: 500 yds. zero	-1.5"	21.7"	36.4"	40.1"	29.5"	0.0	-53.6"
TRAJ: 600 yds. zero	-1.5"	30.6"	54.3"	66.9"	65.2"	44.7"	0.0
VELOCITY (fps)	2200	1940	1700	1485	1300	1155	1052
ENERGY (ft.-lbs.)	2364	1838	1411	1077	826	652	541
TRAJ: 100 yds. zero	-1.5"	0.0	-7.8"	-27.7"	-63.5"	-120.0"	-202.5"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-16.0"	-47.9"	-100.5"	-179.1"
TRAJ: 300 yds. zero	-1.5"	9.2"	10.7"	0.0	-26.6"	-73.8"	-147.1"
TRAJ: 400 yds. zero	-1.5"	15.9"	23.9"	19.9"	0.0	-40.6"	-107.2"
TRAJ: 500 yds. zero	-1.5"	24.0"	40.2"	44.3"	32.5"	0.0	-58.5"
TRAJ: 600 yds. zero	-1.5"	33.7"	59.7"	73.5"	71.5"	48.7"	0.0
VELOCITY (fps)	2100	1847	1616	1411	1241	1112	1022
ENERGY (ft.-lbs.)	2154	1666	1275	973	752	604	511
TRAJ: 100 yds. zero	-1.5"	0.0	-8.8"	-30.9"	-70.6"	-133.0"	-223.2"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-17.8"	-53.1"	-111.2"	-197.0"
TRAJ: 300 yds. zero	-1.5"	10.3"	11.8"	0.0	-29.4"	-81.5"	-161.4"
TRAJ: 400 yds. zero	-1.5"	17.7"	26.6"	22.1"	0.0	-44.8"	-117.3"
TRAJ: 500 yds. zero	-1.5"	26.6"	44.5"	48.9"	35.8"	0.0	-63.6"
TRAJ: 600 yds. zero	-1.5"	37.2"	65.7"	80.7"	78.2"	53.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2000	1755	1533	1341	1186	1073	995
ENERGY (ft.-lbs.)	1954	1504	1148	878	687	563	484
TRAJ: 100 yds. zero	-1.5"	0.0	-9.9"	-34.6"	-78.8"	-147.7"	-246.0"
TRAJ: 200 yds. zero	-1.5"	4.9"	0.0	-19.8"	-59.0"	-123.0"	-216.5"
TRAJ: 300 yds. zero	-1.5"	11.5"	13.2"	0.0	-32.6"	-90.0"	-176.9"
TRAJ: 400 yds. zero	-1.5"	19.7"	29.5"	24.5"	0.0	-49.2"	-127.9"
TRAJ: 500 yds. zero	-1.5"	29.5"	49.2"	54.0"	39.4"	0.0	-68.8"
TRAJ: 600 yds. zero	-1.5"	41.0"	72.2"	88.4"	85.3"	57.3"	0.0

7.62 X 39 CALIBER (.310" Dia.) 123 GRAIN SPIRE POINT
SECTIONAL DENSITY: .183 BALLISTIC COEFFICIENT: .252

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2500	2331	2169	2013	1864	1722	1589
ENERGY (ft.-lbs.)	1707	1484	1284	1106	948	810	690
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.1"	-6.2"	-12.8"	-22.3"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-1.9"	-6.0"	-12.5"	-22.0"
TRAJ: 150 yds. zero	-1.5"	0.7"	1.3"	0.0	-3.4"	-9.3"	-18.2"
TRAJ: 200 yds. zero	-1.5"	1.5"	3.0"	2.6"	0.0	-5.1"	-13.1"
TRAJ: 250 yds. zero	-1.5"	2.6"	5.0"	5.6"	4.1"	0.0	-7.0"
TRAJ: 300 yds. zero	-1.5"	3.7"	7.3"	9.1"	8.7"	5.8"	0.0
VELOCITY (fps)	2400	2235	2076	1924	1780	1643	1516
ENERGY (ft.-lbs.)	1573	1364	1177	1011	865	737	627
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.5"	-7.1"	-14.5"	-25.1"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.1"	-6.6"	-13.9"	-24.3"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-3.8"	-10.3"	-20.1"
TRAJ: 200 yds. zero	-1.5"	1.8"	3.3"	2.8"	0.0	-5.6"	-14.4"
TRAJ: 250 yds. zero	-1.5"	2.9"	5.5"	6.2"	4.5"	0.0	-7.7"
TRAJ: 300 yds. zero	-1.5"	4.2"	8.1"	10.0"	9.6"	6.4"	0.0
VELOCITY (fps)	2300	2139	1984	1836	1697	1565	1444
ENERGY (ft.-lbs.)	1445	1249	1075	921	786	669	569
TRAJ: 50 yds. zero	-1.5"	0.0	-0.4"	-3.0"	-8.2"	-16.4"	-28.2"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.4"	-7.4"	-15.4"	-27.0"
TRAJ: 150 yds. zero	-1.5"	1.0"	1.6"	0.0	-4.2"	-11.4"	-22.2"
TRAJ: 200 yds. zero	-1.5"	2.1"	3.7"	3.1"	0.0	-6.2"	-15.9"
TRAJ: 250 yds. zero	-1.5"	3.3"	6.2"	6.8"	4.9"	0.0	-8.5"
TRAJ: 300 yds. zero	-1.5"	4.7"	9.0"	11.1"	10.6"	7.1"	0.0
VELOCITY (fps)	2200	2043	1892	1749	1615	1489	1375
ENERGY (ft.-lbs.)	1322	1139	978	836	712	606	516
TRAJ: 50 yds. zero	-1.5"	0.0	-0.6"	-3.6"	-9.5"	-18.7"	-31.8"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.7"	-8.3"	-17.2"	-30.0"
TRAJ: 150 yds. zero	-1.5"	1.2"	1.8"	0.0	-4.7"	-12.7"	-24.6"
TRAJ: 200 yds. zero	-1.5"	2.4"	4.1"	3.5"	0.0	-6.8"	-17.6"
TRAJ: 250 yds. zero	-1.5"	3.7"	6.9"	7.6"	5.5"	0.0	-9.4"
TRAJ: 300 yds. zero	-1.5"	5.3"	10.0"	12.3"	11.7"	7.8"	0.0
VELOCITY (fps)	2100	1947	1801	1663	1534	1416	1309
ENERGY (ft.-lbs.)	1204	1035	886	755	643	547	468
TRAJ: 50 yds. zero	-1.5"	0.0	-0.8"	-4.3"	-10.9"	-21.2"	-35.9"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.1"	-9.3"	-19.2"	-33.5"
TRAJ: 150 yds. zero	-1.5"	1.4"	2.1"	0.0	-5.2"	-14.1"	-27.4"
TRAJ: 200 yds. zero	-1.5"	2.7"	4.7"	3.9"	0.0	-7.6"	-19.6"
TRAJ: 250 yds. zero	-1.5"	4.2"	7.7"	8.5"	6.1"	0.0	-10.4"
TRAJ: 300 yds. zero	-1.5"	6.0"	11.2"	13.7"	13.0"	8.7"	0.0
VELOCITY (fps)	2000	1852	1711	1579	1456	1345	1247
ENERGY (ft.-lbs.)	1092	936	799	681	579	494	425
TRAJ: 50 yds. zero	-1.5"	0.0	-1.0"	-5.1"	-12.6"	-24.2"	-40.6"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.5"	-10.5"	-21.6"	-37.5"
TRAJ: 150 yds. zero	-1.5"	1.7"	2.3"	0.0	-5.8"	-15.8"	-30.5"
TRAJ: 200 yds. zero	-1.5"	3.1"	5.2"	4.4"	0.0	-8.5"	-21.8"
TRAJ: 250 yds. zero	-1.5"	4.8"	8.6"	9.5"	6.8"	0.0	-11.6"
TRAJ: 300 yds. zero	-1.5"	6.8"	12.5"	15.3"	14.5"	9.7"	0.0
VELOCITY (fps)	1900	1757	1621	1496	1381	1278	1190
ENERGY (ft.-lbs.)	986	843	718	611	521	446	387
TRAJ: 50 yds. zero	-1.5"	0.0	-1.3"	-6.0"	-14.5"	-27.6"	-46.0"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.0"	-11.8"	-24.3"	-42.0"
TRAJ: 150 yds. zero	-1.5"	2.0"	2.6"	0.0	-6.5"	-17.6"	-34.1"
TRAJ: 200 yds. zero	-1.5"	3.6"	5.9"	4.9"	0.0	-9.5"	-24.3"
TRAJ: 250 yds. zero	-1.5"	5.5"	9.7"	10.6"	7.6"	0.0	-12.9"
TRAJ: 300 yds. zero	-1.5"	7.7"	14.0"	17.0"	16.2"	10.8"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1800	1662	1533	1415	1308	1215	1138
ENERGY (ft.-lbs.)	885	754	642	547	467	403	354
TRAJ: 50 yds. zero	-1.5"	0.0	-1.7"	-7.0"	-16.7"	-31.5"	-52.2"
TRAJ: 100 yds. zero	-1.5"	0.8"	0.0	-4.5"	-13.4"	-27.4"	-47.2"
TRAJ: 150 yds. zero	-1.5"	2.3"	3.0"	0.0	-7.4"	-19.8"	-38.2"
TRAJ: 200 yds. zero	-1.5"	4.2"	6.7"	5.5"	0.0	-10.6"	-27.1"
TRAJ: 250 yds. zero	-1.5"	6.3"	10.9"	11.9"	8.5"	0.0	-14.4"
TRAJ: 300 yds. zero	-1.5"	8.7"	15.7"	19.1"	18.1"	12.0"	0.0

7.62 X 39 CALIBER (.310" Dia.) 123 GRAIN FULL METAL JACKET

SECTIONAL DENSITY: .183 BALLISTIC COEFFICIENT: .266

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2500	2340	2185	2037	1894	1759	1630
ENERGY (ft.-lbs.)	1707	1495	1304	1133	980	845	726
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.0"	-6.0"	-12.4"	-21.7"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.9"	-5.8"	-12.2"	-21.4"
TRAJ: 150 yds. zero	-1.5"	0.7"	1.2"	0.0	-3.3"	-9.1"	-17.7"
TRAJ: 200 yds. zero	-1.5"	1.5"	2.9"	2.5"	0.0	-4.9"	-12.7"
TRAJ: 250 yds. zero	-1.5"	2.5"	4.9"	5.5"	3.9"	0.0	-6.8"
TRAJ: 300 yds. zero	-1.5"	3.6"	7.1"	8.8"	8.5"	5.6"	0.0
VELOCITY (fps)	2400	2243	2093	1948	1809	1678	1555
ENERGY (ft.-lbs.)	1573	1374	1196	1036	894	769	660
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.4"	-7.0"	-14.1"	-24.4"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.1"	-6.5"	-13.6"	-23.7"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-3.7"	-10.0"	-19.5"
TRAJ: 200 yds. zero	-1.5"	1.7"	3.2"	2.8"	0.0	-5.4"	-14.0"
TRAJ: 250 yds. zero	-1.5"	2.8"	5.4"	6.0"	4.3"	0.0	-7.4"
TRAJ: 300 yds. zero	-1.5"	4.1"	7.9"	9.7"	9.3"	6.2"	0.0
VELOCITY (fps)	2300	2147	2000	1859	1725	1599	1481
ENERGY (ft.-lbs.)	1445	1259	1092	944	813	698	599
TRAJ: 50 yds. zero	-1.5"	0.0	-0.4"	-3.0"	-8.0"	-16.0"	-27.5"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.4"	-7.3"	-15.1"	-26.3"
TRAJ: 150 yds. zero	-1.5"	1.0"	1.6"	0.0	-4.1"	-11.1"	-21.6"
TRAJ: 200 yds. zero	-1.5"	2.0"	3.6"	3.1"	0.0	-6.0"	-15.4"
TRAJ: 250 yds. zero	-1.5"	3.2"	6.0"	6.7"	4.8"	0.0	-8.2"
TRAJ: 300 yds. zero	-1.5"	4.6"	8.8"	10.8"	10.3"	6.8"	0.0
VELOCITY (fps)	2200	2051	1908	1771	1642	1521	1410
ENERGY (ft.-lbs.)	1322	1149	994	857	736	632	543
TRAJ: 50 yds. zero	-1.5"	0.0	-0.6"	-3.5"	-9.3"	-18.2"	-31.0"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.7"	-8.1"	-16.8"	-29.2"
TRAJ: 150 yds. zero	-1.5"	1.2"	1.8"	0.0	-4.6"	-12.3"	-23.9"
TRAJ: 200 yds. zero	-1.5"	2.3"	4.1"	3.4"	0.0	-6.6"	-17.1"
TRAJ: 250 yds. zero	-1.5"	3.6"	6.7"	7.4"	5.3"	0.0	-9.1"
TRAJ: 300 yds. zero	-1.5"	5.2"	9.7"	11.9"	11.4"	7.6"	0.0
VELOCITY (fps)	2100	1955	1816	1685	1561	1446	1341
ENERGY (ft.-lbs.)	1204	1044	901	775	665	571	491
TRAJ: 50 yds. zero	-1.5"	0.0	-0.8"	-4.2"	-10.7"	-20.7"	-35.0"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.0"	-9.1"	-18.8"	-32.6"
TRAJ: 150 yds. zero	-1.5"	1.4"	2.0"	0.0	-5.1"	-13.7"	-26.6"
TRAJ: 200 yds. zero	-1.5"	2.7"	4.6"	3.8"	0.0	-7.4"	-18.9"
TRAJ: 250 yds. zero	-1.5"	4.1"	7.5"	8.2"	5.9"	0.0	-10.1"
TRAJ: 300 yds. zero	-1.5"	5.8"	10.9"	13.3"	12.6"	8.4"	0.0
VELOCITY (fps)	2000	1859	1725	1599	1481	1373	1277
ENERGY (ft.-lbs.)	1092	944	813	698	599	515	445
TRAJ: 50 yds. zero	-1.5"	0.0	-1.0"	-5.0"	-12.3"	-23.6"	-39.6"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.4"	-10.3"	-21.1"	-36.5"
TRAJ: 150 yds. zero	-1.5"	1.7"	2.3"	0.0	-5.7"	-15.4"	-29.6"
TRAJ: 200 yds. zero	-1.5"	3.1"	5.1"	4.3"	0.0	-8.2"	-21.1"
TRAJ: 250 yds. zero	-1.5"	4.7"	8.4"	9.2"	6.6"	0.0	-11.2"
TRAJ: 300 yds. zero	-1.5"	6.6"	12.2"	14.8"	14.1"	9.3"	0.0
VELOCITY (fps)	1900	1764	1635	1515	1404	1304	1216
ENERGY (ft.-lbs.)	986	850	730	627	538	464	404
TRAJ: 50 yds. zero	-1.5"	0.0	-1.3"	-5.8"	-14.2"	-27.0"	-44.8"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.9"	-11.6"	-23.7"	-41.0"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.6"	0.0	-6.4"	-17.2"	-33.2"
TRAJ: 200 yds. zero	-1.5"	3.5"	5.8"	4.8"	0.0	-9.2"	-23.6"
TRAJ: 250 yds. zero	-1.5"	5.4"	9.5"	10.3"	7.4"	0.0	-12.5"
TRAJ: 300 yds. zero	-1.5"	7.5"	13.7"	16.6"	15.7"	10.4"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1800	1669	1546	1433	1330	1238	1161
ENERGY (ft.-lbs.)	885	761	653	561	483	419	368
TRAJ: 50 yds. zero	-1.5"	0.0	-1.6"	-6.9"	-16.4"	-30.8"	-50.9"
TRAJ: 100 yds. zero	-1.5"	0.8"	0.0	-4.5"	-13.1"	-26.8"	-46.0"
TRAJ: 150 yds. zero	-1.5"	2.3"	3.0"	0.0	-7.2"	-19.3"	-37.1"
TRAJ: 200 yds. zero	-1.5"	4.1"	6.6"	5.4"	0.0	-10.3"	-26.3"
TRAJ: 250 yds. zero	-1.5"	6.2"	10.7"	11.6"	8.3"	0.0	-13.9"
TRAJ: 300 yds. zero	-1.5"	8.5"	15.3"	18.6"	17.6"	11.6"	0.0

303 CALIBER (.312" Dia.) 150 GRAIN SPIRE POINT
SECTIONAL DENSITY: .220 BALLISTIC COEFFICIENT: .361

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2455	2224	2005	1799	1609	1438
ENERGY (ft.-lbs.)	2428	2008	1647	1338	1078	862	689
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-15.6"	-35.6"	-66.5"	-110.8"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.2"	-27.1"	-55.7"	-97.9"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.1"	0.0	-14.8"	-40.4"	-79.6"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.5"	11.1"	0.0	-21.9"	-57.3"
TRAJ: 500 yds. zero	-1.5"	13.3"	22.3"	24.3"	17.5"	0.0	-31.0"
TRAJ: 600 yds. zero	-1.5"	18.5"	32.6"	39.8"	38.2"	25.9"	0.0
VELOCITY (fps)	2600	2361	2134	1920	1721	1538	1375
ENERGY (ft.-lbs.)	2251	1856	1517	1228	986	788	630
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-17.2"	-39.1"	-72.7"	-121.2"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.0"	-29.5"	-60.9"	-107.0"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.7"	0.0	-16.2"	-44.1"	-86.9"
TRAJ: 400 yds. zero	-1.5"	9.8"	14.8"	12.1"	0.0	-23.9"	-62.7"
TRAJ: 500 yds. zero	-1.5"	14.5"	24.3"	26.5"	19.1"	0.0	-33.9"
TRAJ: 600 yds. zero	-1.5"	20.2"	35.7"	43.4"	41.8"	28.3"	0.0
VELOCITY (fps)	2500	2266	2044	1836	1643	1468	1315
ENERGY (ft.-lbs.)	2081	1710	1392	1123	899	718	576
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-18.9"	-42.9"	-79.9"	-133.1"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.0"	-32.3"	-66.6"	-117.2"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.3"	0.0	-17.7"	-48.3"	-95.2"
TRAJ: 400 yds. zero	-1.5"	10.7"	16.2"	13.3"	0.0	-26.2"	-68.7"
TRAJ: 500 yds. zero	-1.5"	16.0"	26.7"	29.0"	21.0"	0.0	-37.2"
TRAJ: 600 yds. zero	-1.5"	22.2"	39.1"	47.6"	45.8"	31.0"	0.0
VELOCITY (fps)	2400	2171	1955	1753	1567	1401	1258
ENERGY (ft.-lbs.)	1918	1570	1273	1024	818	654	527
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-20.9"	-47.3"	-88.0"	-146.4"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.1"	-35.5"	-73.2"	-128.7"
TRAJ: 300 yds. zero	-1.5"	7.0"	8.1"	0.0	-19.4"	-53.1"	-104.6"
TRAJ: 400 yds. zero	-1.5"	11.8"	17.8"	14.6"	0.0	-28.8"	-75.4"
TRAJ: 500 yds. zero	-1.5"	17.6"	29.3"	31.8"	23.0"	0.0	-40.9"
TRAJ: 600 yds. zero	-1.5"	24.4"	42.9"	52.3"	50.3"	34.1"	0.0
VELOCITY (fps)	2300	2077	1867	1671	1493	1336	1205
ENERGY (ft.-lbs.)	1762	1436	1160	930	742	595	484
TRAJ: 100 yds. zero	-1.5"	0.0	-6.6"	-23.2"	-52.3"	-97.1"	-161.5"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-13.3"	-39.1"	-80.6"	-141.8"
TRAJ: 300 yds. zero	-1.5"	7.7"	8.9"	0.0	-21.4"	-58.5"	-115.1"
TRAJ: 400 yds. zero	-1.5"	13.1"	19.6"	16.0"	0.0	-31.7"	-83.1"
TRAJ: 500 yds. zero	-1.5"	19.4"	32.3"	35.1"	25.4"	0.0	-45.0"
TRAJ: 600 yds. zero	-1.5"	26.9"	47.3"	57.6"	55.4"	37.5"	0.0
VELOCITY (fps)	2200	1982	1778	1590	1421	1275	1157
ENERGY (ft.-lbs.)	1612	1309	1053	842	673	541	446
TRAJ: 100 yds. zero	-1.5"	0.0	-7.4"	-25.8"	-58.0"	-107.6"	-178.6"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-14.7"	-43.3"	-89.1"	-156.5"
TRAJ: 300 yds. zero	-1.5"	8.6"	9.8"	0.0	-23.6"	-64.6"	-127.0"
TRAJ: 400 yds. zero	-1.5"	14.5"	21.6"	17.7"	0.0	-35.0"	-91.6"
TRAJ: 500 yds. zero	-1.5"	21.5"	35.6"	38.7"	28.0"	0.0	-49.5"
TRAJ: 600 yds. zero	-1.5"	29.8"	52.2"	63.5"	61.1"	41.3"	0.0

**Hornady
HANDBOOK****303 CALIBER (.312" Dia.) 174 GRAIN ROUND NOSE**

SECTIONAL DENSITY: .255 BALLISTIC COEFFICIENT: .262

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2600	2274	1971	1695	1452	1251	1103
ENERGY (ft.-lbs.)	2611	1997	1501	1110	814	604	470
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.6"	-46.1"	-89.3"	-154.9"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.7"	-35.5"	-76.1"	-139.1"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.8"	0.0	-20.0"	-56.7"	-115.8"
TRAJ: 400 yds. zero	-1.5"	11.5"	17.8"	15.0"	0.0	-31.7"	-85.8"
TRAJ: 500 yds. zero	-1.5"	17.9"	30.4"	34.0"	25.3"	0.0	-47.8"
TRAJ: 600 yds. zero	-1.5"	25.8"	46.4"	57.9"	57.2"	39.8"	0.0
VELOCITY (fps)	2500	2181	1886	1619	1387	1201	1070
ENERGY (ft.-lbs.)	2414	1837	1374	1012	743	557	442
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-21.6"	-50.7"	-98.1"	-169.7"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.8"	-39.0"	-83.4"	-146.1"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.5"	0.0	-21.9"	-62.1"	-126.5"
TRAJ: 400 yds. zero	-1.5"	12.7"	19.5"	16.4"	0.0	-34.7"	-93.6"
TRAJ: 500 yds. zero	-1.5"	19.6"	33.4"	37.3"	27.8"	0.0	-52.0"
TRAJ: 600 yds. zero	-1.5"	28.3"	50.7"	63.3"	62.4"	43.3"	0.0
VELOCITY (fps)	2400	2088	1801	1544	1325	1155	1040
ENERGY (ft.-lbs.)	2225	1684	1253	921	678	515	418
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-23.9"	-55.9"	-108.0"	-186.1"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-14.1"	-42.9"	-91.7"	-166.5"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.4"	0.0	-24.1"	-68.2"	-138.3"
TRAJ: 400 yds. zero	-1.5"	14.0"	21.4"	18.1"	0.0	-38.1"	-102.1"
TRAJ: 500 yds. zero	-1.5"	21.6"	36.7"	40.9"	30.5"	0.0	-56.4"
TRAJ: 600 yds. zero	-1.5"	31.0"	55.5"	69.2"	68.1"	47.0"	0.0
VELOCITY (fps)	2300	1996	1717	1471	1266	1114	1013
ENERGY (ft.-lbs.)	2043	1538	1139	836	619	479	396
TRAJ: 100 yds. zero	-1.5"	0.0	-7.3"	-26.5"	-61.9"	-119.2"	-204.1"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-15.5"	-47.3"	-100.9"	-182.2"
TRAJ: 300 yds. zero	-1.5"	8.8"	10.4"	0.0	-26.6"	-75.0"	-151.1"
TRAJ: 400 yds. zero	-1.5"	15.5"	23.7"	19.9"	0.0	-41.8"	-111.2"
TRAJ: 500 yds. zero	-1.5"	23.8"	40.4"	45.0"	33.5"	0.0	-61.0"
TRAJ: 600 yds. zero	-1.5"	34.0"	60.7"	75.5"	74.1"	50.9"	0.0
VELOCITY (fps)	2200	1904	1635	1400	1211	1077	988
ENERGY (ft.-lbs.)	1870	1400	1032	757	566	448	377
TRAJ: 100 yds. zero	-1.5"	0.0	-8.2"	-29.5"	-68.7"	-131.6"	-223.8"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-17.2"	-52.3"	-111.2"	-199.3"
TRAJ: 300 yds. zero	-1.5"	9.8"	11.5"	0.0	-29.4"	-82.5"	-164.8"
TRAJ: 400 yds. zero	-1.5"	17.2"	26.2"	22.0"	0.0	-45.8"	-120.8"
TRAJ: 500 yds. zero	-1.5"	26.3"	44.5"	49.5"	36.7"	0.0	-65.8"
TRAJ: 600 yds. zero	-1.5"	37.3"	66.4"	82.4"	80.5"	54.8"	0.0
VELOCITY (fps)	2100	1812	1553	1332	1160	1044	965
ENERGY (ft.-lbs.)	1704	1268	932	686	520	421	360
TRAJ: 100 yds. zero	-1.5"	0.0	-9.2"	-32.9"	-76.3"	-145.5"	-245.2"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-19.1"	-58.0"	-122.5"	-217.7"
TRAJ: 300 yds. zero	-1.5"	11.0"	12.7"	0.0	-32.5"	-90.7"	-179.5"
TRAJ: 400 yds. zero	-1.5"	19.1"	29.0"	24.4"	0.0	-50.1"	-130.8"
TRAJ: 500 yds. zero	-1.5"	29.1"	49.0"	54.4"	40.1"	0.0	-70.7"
TRAJ: 600 yds. zero	-1.5"	40.9"	72.6"	89.7"	87.2"	58.9"	0.0
VELOCITY (fps)	2000	1721	1474	1268	1115	1014	943
ENERGY (ft.-lbs.)	1545	1145	840	621	481	397	343
TRAJ: 100 yds. zero	-1.5"	0.0	-10.3"	-36.8"	-85.0"	-160.7"	-268.6"
TRAJ: 200 yds. zero	-1.5"	5.2"	0.0	-21.3"	-64.3"	-134.9"	-237.6"
TRAJ: 300 yds. zero	-1.5"	12.3"	14.2"	0.0	-35.9"	-99.4"	-195.0"
TRAJ: 400 yds. zero	-1.5"	21.2"	32.1"	26.9"	0.0	-54.5"	-141.1"
TRAJ: 500 yds. zero	-1.5"	32.1"	54.0"	59.7"	43.6"	0.0	-75.7"
TRAJ: 600 yds. zero	-1.5"	44.8"	79.2"	97.5"	94.1"	63.1"	0.0
VELOCITY (fps)	1900	1631	1397	1209	1075	987	922
ENERGY (ft.-lbs.)	1395	1028	754	564	447	376	328
TRAJ: 100 yds. zero	-1.5"	0.0	-11.7"	-41.3"	-94.7"	-177.5"	-293.9"
TRAJ: 200 yds. zero	-1.5"	5.8"	0.0	-23.8"	-71.3"	-148.3"	-258.9"
TRAJ: 300 yds. zero	-1.5"	13.8"	15.8"	0.0	-39.7"	-108.7"	-211.4"
TRAJ: 400 yds. zero	-1.5"	23.7"	35.7"	29.8"	0.0	-59.1"	-151.8"
TRAJ: 500 yds. zero	-1.5"	35.5"	59.3"	65.2"	47.3"	0.0	-80.9"
TRAJ: 600 yds. zero	-1.5"	49.0"	86.3"	105.7"	101.2"	67.4"	0.0

32 CALIBER (.321" Dia.) 170 GRAIN FLAT POINT
SECTIONAL DENSITY: .236 BALLISTIC COEFFICIENT: .249

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2200	2041	1889	1744	1608	1482	1367
ENERGY (ft.-lbs.)	1827	1572	1346	1148	976	829	705
TRAJ: 50 yds. zero	-1.5"	0.0	-0.6"	-3.6"	-9.5"	-18.8"	-32.0"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.7"	-8.3"	-17.3"	-30.2"
TRAJ: 150 yds. zero	-1.5"	1.2"	1.8"	0.0	-4.7"	-12.7"	-24.8"
TRAJ: 200 yds. zero	-1.5"	2.4"	4.2"	3.5"	0.0	-6.9"	-17.7"
TRAJ: 250 yds. zero	-1.5"	3.8"	6.9"	7.6"	5.5"	0.0	-9.5"
TRAJ: 300 yds. zero	-1.5"	5.3"	10.1"	12.4"	11.8"	7.9"	0.0
VELOCITY (fps)	2100	1945	1798	1659	1528	1409	1302
ENERGY (ft.-lbs.)	1664	1428	1220	1038	882	749	640
TRAJ: 50 yds. zero	-1.5"	0.0	-0.8"	-4.3"	-11.0"	-21.3"	-36.1"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.1"	-9.4"	-19.3"	-33.7"
TRAJ: 150 yds. zero	-1.5"	1.4"	2.1"	0.0	-5.2"	-14.2"	-27.5"
TRAJ: 200 yds. zero	-1.5"	2.7"	4.7"	3.9"	0.0	-7.7"	-19.7"
TRAJ: 250 yds. zero	-1.5"	4.3"	7.7"	8.5"	6.1"	0.0	-10.5"
TRAJ: 300 yds. zero	-1.5"	6.0"	11.2"	13.8"	13.1"	8.8"	0.0
VELOCITY (fps)	2000	1850	1708	1574	1451	1339	1241
ENERGY (ft.-lbs.)	1510	1292	1100	935	794	677	581
TRAJ: 50 yds. zero	-1.5"	0.0	-1.0"	-5.1"	-12.6"	-24.3"	-40.9"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.5"	-10.5"	-21.7"	-37.7"
TRAJ: 150 yds. zero	-1.5"	1.7"	2.3"	0.0	-5.9"	-15.8"	-30.7"
TRAJ: 200 yds. zero	-1.5"	3.2"	5.3"	4.4"	0.0	-8.5"	-21.9"
TRAJ: 250 yds. zero	-1.5"	4.9"	8.7"	9.5"	6.8"	0.0	-11.7"
TRAJ: 300 yds. zero	-1.5"	6.8"	12.6"	15.4"	14.6"	9.7"	0.0
VELOCITY (fps)	1900	1755	1618	1491	1375	1272	1184
ENERGY (ft.-lbs.)	1362	1162	988	839	714	611	529
TRAJ: 50 yds. zero	-1.5"	0.0	-1.3"	-6.0"	-14.5"	-27.7"	-46.3"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.0"	-11.9"	-24.4"	-42.3"
TRAJ: 150 yds. zero	-1.5"	2.0"	2.7"	0.0	-6.6"	-17.8"	-34.3"
TRAJ: 200 yds. zero	-1.5"	3.6"	5.9"	4.9"	0.0	-9.5"	-24.5"
TRAJ: 250 yds. zero	-1.5"	5.5"	9.8"	10.7"	7.6"	0.0	-13.0"
TRAJ: 300 yds. zero	-1.5"	7.7"	14.1"	17.2"	16.3"	10.8"	0.0
VELOCITY (fps)	1800	1661	1530	1411	1303	1210	1133
ENERGY (ft.-lbs.)	1223	1041	884	751	641	553	484
TRAJ: 50 yds. zero	-1.5"	0.0	-1.7"	-7.0"	-16.8"	-31.7"	-52.5"
TRAJ: 100 yds. zero	-1.5"	0.8"	0.0	-4.5"	-13.5"	-27.5"	-47.5"
TRAJ: 150 yds. zero	-1.5"	2.3"	3.0"	0.0	-7.4"	-19.9"	-38.4"
TRAJ: 200 yds. zero	-1.5"	4.2"	6.7"	5.6"	0.0	-10.7"	-27.3"
TRAJ: 250 yds. zero	-1.5"	6.3"	11.0"	12.0"	8.5"	0.0	-14.5"
TRAJ: 300 yds. zero	-1.5"	8.7"	15.8"	19.2"	18.2"	12.1"	0.0
VELOCITY (fps)	1700	1567	1444	1333	1236	1154	1087
ENERGY (ft.-lbs.)	1091	927	787	671	576	502	446
TRAJ: 50 yds. zero	-1.5"	0.0	-2.0"	-8.3"	-19.4"	-36.2"	-59.5"
TRAJ: 100 yds. zero	-1.5"	1.0"	0.0	-5.2"	-15.3"	-31.1"	-53.4"
TRAJ: 150 yds. zero	-1.5"	2.8"	3.5"	0.0	-8.4"	-22.4"	-43.0"
TRAJ: 200 yds. zero	-1.5"	4.8"	7.6"	6.3"	0.0	-12.0"	-30.5"
TRAJ: 250 yds. zero	-1.5"	7.2"	12.4"	13.5"	9.6"	0.0	-16.1"
TRAJ: 300 yds. zero	-1.5"	9.9"	17.8"	21.5"	20.3"	13.4"	0.0

8MM CALIBER (.323" Dia.) 125 GRAIN SPIRE POINT
SECTIONAL DENSITY: .171 BALLISTIC COEFFICIENT: .246

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3600	3167	2774	2414	2081	1777	1508
ENERGY (ft.-lbs.)	3597	2783	2136	1617	1202	877	631
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.5"	-21.0"	-41.6"	-73.4"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.5"	-17.1"	-36.7"	-67.4"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.7"	0.0	-9.7"	-27.5"	-56.3"
TRAJ: 400 yds. zero	-1.5"	5.3"	8.5"	7.3"	0.0	-15.3"	-41.8"
TRAJ: 500 yds. zero	-1.5"	8.3"	14.7"	16.5"	12.3"	0.0	-23.4"
TRAJ: 600 yds. zero	-1.5"	12.2"	22.5"	28.2"	27.9"	19.5"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3077	2692	2338	2011	1714	1454
ENERGY (ft.-lbs.)	3399	2627	2011	1517	1123	816	586
TRAJ: 100 yds. zero	-1.5"	0.0	-2.2"	-9.2"	-22.6"	-44.7"	-78.8"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.9"	-18.2"	-39.2"	-72.2"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.9"	0.0	-10.3"	-29.4"	-60.3"
TRAJ: 400 yds. zero	-1.5"	5.7"	9.1"	7.8"	0.0	-16.4"	-44.8"
TRAJ: 500 yds. zero	-1.5"	8.9"	15.7"	17.6"	13.1"	0.0	-25.1"
TRAJ: 600 yds. zero	-1.5"	13.1"	24.1"	30.2"	29.9"	20.9"	0.0
VELOCITY (fps)	3400	2986	2609	2261	1941	1652	1401
ENERGY (ft.-lbs.)	3208	2475	1889	1419	1046	757	544
TRAJ: 100 yds. zero	-1.5"	0.0	-2.4"	-10.0"	-24.4"	-48.1"	-84.7"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.3"	-19.5"	-42.0"	-77.5"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.2"	0.0	-11.1"	-31.5"	-64.8"
TRAJ: 400 yds. zero	-1.5"	6.1"	9.8"	8.3"	0.0	-17.6"	-48.1"
TRAJ: 500 yds. zero	-1.5"	9.6"	16.8"	18.9"	14.1"	0.0	-27.0"
TRAJ: 600 yds. zero	-1.5"	14.1"	25.8"	32.4"	32.1"	22.5"	0.0
VELOCITY (fps)	3300	2895	2526	2184	1871	1589	1349
ENERGY (ft.-lbs.)	3022	2327	1770	1324	971	701	505
TRAJ: 100 yds. zero	-1.5"	0.0	-2.7"	-10.8"	-26.3"	-51.8"	-91.3"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.8"	-21.0"	-45.2"	-83.3"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.5"	0.0	-11.9"	-33.8"	-69.7"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.5"	8.9"	0.0	-18.9"	-51.8"
TRAJ: 500 yds. zero	-1.5"	10.4"	18.1"	20.3"	15.2"	0.0	-29.1"
TRAJ: 600 yds. zero	-1.5"	15.2"	27.8"	34.8"	34.6"	24.3"	0.0
VELOCITY (fps)	3200	2804	2442	2107	1801	1528	1299
ENERGY (ft.-lbs.)	2842	2183	1655	1232	900	648	468
TRAJ: 100 yds. zero	-1.5"	0.0	-2.9"	-11.8"	-28.5"	-56.0"	-98.7"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.3"	-22.6"	-48.7"	-89.8"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.9"	0.0	-12.8"	-36.4"	-75.2"
TRAJ: 400 yds. zero	-1.5"	7.1"	11.3"	9.6"	0.0	-20.4"	-56.0"
TRAJ: 500 yds. zero	-1.5"	11.2"	19.5"	21.9"	16.3"	0.0	-31.5"
TRAJ: 600 yds. zero	-1.5"	16.4"	29.9"	37.6"	37.3"	26.2"	0.0
VELOCITY (fps)	3100	2713	2358	2030	1731	1468	1251
ENERGY (ft.-lbs.)	2667	2043	1542	1143	831	598	435
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.8"	-30.9"	-60.7"	-106.9"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.9"	-24.4"	-52.6"	-97.1"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.3"	0.0	-13.8"	-39.3"	-81.3"
TRAJ: 400 yds. zero	-1.5"	7.7"	12.2"	10.3"	0.0	-22.1"	-60.6"
TRAJ: 500 yds. zero	-1.5"	12.1"	21.0"	23.6"	17.7"	0.0	-34.1"
TRAJ: 600 yds. zero	-1.5"	17.8"	32.4"	40.6"	40.4"	28.4"	0.0
VELOCITY (fps)	3000	2622	2273	1952	1661	1409	1207
ENERGY (ft.-lbs.)	2498	1907	1434	1057	766	551	404
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-14.0"	-33.5"	-65.9"	-116.0"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.6"	-26.4"	-56.9"	-105.2"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.7"	0.0	-14.9"	-42.6"	-88.1"
TRAJ: 400 yds. zero	-1.5"	8.4"	13.2"	11.2"	0.0	-24.0"	-65.7"
TRAJ: 500 yds. zero	-1.5"	13.2"	22.8"	25.6"	19.2"	0.0	-36.9"
TRAJ: 600 yds. zero	-1.5"	19.3"	35.1"	44.0"	43.8"	30.8"	0.0
VELOCITY (fps)	2900	2530	2188	1874	1593	1351	1165
ENERGY (ft.-lbs.)	2334	1776	1329	975	704	507	377
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-15.3"	-36.5"	-71.7"	-126.2"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.3"	-28.6"	-61.8"	-114.3"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.2"	0.0	-16.2"	-46.3"	-95.7"
TRAJ: 400 yds. zero	-1.5"	9.1"	14.3"	12.1"	0.0	-26.0"	-71.4"
TRAJ: 500 yds. zero	-1.5"	14.3"	24.7"	27.8"	20.8"	0.0	-40.1"
TRAJ: 600 yds. zero	-1.5"	21.0"	38.1"	47.8"	47.6"	33.4"	0.0
VELOCITY (fps)	2800	2438	2103	1797	1525	1297	1127
ENERGY (ft.-lbs.)	2176	1649	1228	896	645	467	352
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-16.7"	-39.9"	-78.3"	-137.5"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-10.1"	-31.1"	-67.3"	-124.4"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.7"	0.0	-17.6"	-50.4"	-104.1"
TRAJ: 400 yds. zero	-1.5"	10.0"	15.6"	13.2"	0.0	-28.4"	-77.7"
TRAJ: 500 yds. zero	-1.5"	15.7"	26.9"	30.2"	22.7"	0.0	-43.6"
TRAJ: 600 yds. zero	-1.5"	22.9"	41.5"	52.1"	51.8"	36.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2345	2018	1721	1459	1245	1092
ENERGY (ft.-lbs.)	2023	1527	1131	822	591	430	331
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-18.3"	-43.7"	-85.6"	-150.1"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-11.0"	-34.0"	-73.4"	-135.5"
TRAJ: 300 yds. zero	-1.5"	6.1"	7.4"	0.0	-19.2"	-55.0"	-113.4"
TRAJ: 400 yds. zero	-1.5"	10.9"	17.0"	14.4"	0.0	-31.0"	-84.6"
TRAJ: 500 yds. zero	-1.5"	17.1"	29.4"	33.0"	24.8"	0.0	-47.4"
TRAJ: 600 yds. zero	-1.5"	25.0"	45.2"	56.7"	56.4"	39.5"	0.0
VELOCITY (fps)	2600	2253	1934	1645	1395	1196	1061
ENERGY (ft.-lbs.)	1876	1409	1038	751	540	397	312
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-20.2"	-48.0"	-93.8"	-164.1"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-12.1"	-37.2"	-80.3"	-147.9"
TRAJ: 300 yds. zero	-1.5"	6.7"	8.1"	0.0	-21.1"	-60.2"	-123.7"
TRAJ: 400 yds. zero	-1.5"	12.0"	18.6"	15.8"	0.0	-33.9"	-92.1"
TRAJ: 500 yds. zero	-1.5"	18.8"	32.1"	36.1"	27.1"	0.0	-51.5"
TRAJ: 600 yds. zero	-1.5"	27.3"	49.3"	61.8"	61.4"	42.9"	0.0
VELOCITY (fps)	2500	2161	1850	1571	1334	1152	1033
ENERGY (ft.-lbs.)	1734	1296	949	685	493	368	296
TRAJ: 100 yds. zero	-1.5"	0.0	-6.0"	-22.3"	-52.8"	-103.1"	-179.5"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-13.3"	-40.8"	-88.1"	-161.4"
TRAJ: 300 yds. zero	-1.5"	7.4"	8.8"	0.0	-23.1"	-66.0"	-134.9"
TRAJ: 400 yds. zero	-1.5"	13.2"	20.4"	17.3"	0.0	-37.1"	-100.2"
TRAJ: 500 yds. zero	-1.5"	20.6"	35.2"	39.6"	29.7"	0.0	-55.7"
TRAJ: 600 yds. zero	-1.5"	29.9"	53.8"	67.4"	66.8"	46.4"	0.0
VELOCITY (fps)	2400	2069	1766	1498	1275	1112	1007
ENERGY (ft.-lbs.)	1598	1188	865	623	451	343	281
TRAJ: 100 yds. zero	-1.5"	0.0	-6.7"	-24.6"	-58.3"	-113.5"	-196.3"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-14.6"	-44.9"	-96.7"	-176.2"
TRAJ: 300 yds. zero	-1.5"	8.2"	9.7"	0.0	-25.4"	-72.4"	-147.0"
TRAJ: 400 yds. zero	-1.5"	14.6"	22.4"	19.1"	0.0	-40.6"	-108.9"
TRAJ: 500 yds. zero	-1.5"	22.7"	38.7"	43.4"	32.5"	0.0	-60.1"
TRAJ: 600 yds. zero	-1.5"	32.7"	58.7"	73.5"	72.6"	50.1"	0.0
VELOCITY (fps)	2300	1977	1683	1427	1221	1076	983
ENERGY (ft.-lbs.)	1468	1084	786	565	413	321	268
TRAJ: 100 yds. zero	-1.5"	0.0	-7.5"	-27.3"	-64.5"	-125.0"	-214.7"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-16.1"	-49.5"	-106.3"	-192.3"
TRAJ: 300 yds. zero	-1.5"	9.1"	10.8"	0.0	-28.0"	-79.5"	-160.0"
TRAJ: 400 yds. zero	-1.5"	16.1"	24.8"	21.0"	0.0	-44.5"	-118.0"
TRAJ: 500 yds. zero	-1.5"	25.0"	42.5"	47.7"	35.6"	0.0	-64.7"
TRAJ: 600 yds. zero	-1.5"	35.8"	64.1"	80.0"	78.7"	53.9"	0.0
VELOCITY (fps)	2200	1885	1602	1359	1170	1044	960
ENERGY (ft.-lbs.)	1343	986	712	513	380	303	256
TRAJ: 100 yds. zero	-1.5"	0.0	-8.4"	-30.4"	-71.5"	-137.8"	-234.7"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-17.9"	-54.7"	-116.9"	-209.6"
TRAJ: 300 yds. zero	-1.5"	10.1"	11.9"	0.0	-30.9"	-87.1"	-173.9"
TRAJ: 400 yds. zero	-1.5"	17.9"	27.4"	23.2"	0.0	-48.5"	-127.5"
TRAJ: 500 yds. zero	-1.5"	27.6"	46.8"	52.3"	38.8"	0.0	-69.3"
TRAJ: 600 yds. zero	-1.5"	39.1"	69.9"	86.9"	85.0"	57.7"	0.0
VELOCITY (fps)	2100	1794	1522	1295	1125	1015	939
ENERGY (ft.-lbs.)	1224	893	643	465	351	286	245
TRAJ: 100 yds. zero	-1.5"	0.0	-9.4"	-33.9"	-79.4"	-152.0"	-256.4"
TRAJ: 200 yds. zero	-1.5"	4.7"	0.0	-19.8"	-60.6"	-128.5"	-228.2"
TRAJ: 300 yds. zero	-1.5"	11.3"	13.2"	0.0	-34.1"	-95.4"	-188.5"
TRAJ: 400 yds. zero	-1.5"	19.8"	30.3"	25.6"	0.0	-52.7"	-137.3"
TRAJ: 500 yds. zero	-1.5"	30.4"	51.4"	57.2"	42.2"	0.0	-74.0"
TRAJ: 600 yds. zero	-1.5"	42.7"	76.1"	94.3"	91.6"	61.7"	0.0
VELOCITY (fps)	2000	1704	1445	1234	1085	989	919
ENERGY (ft.-lbs.)	1110	806	579	423	327	271	235
TRAJ: 100 yds. zero	-1.5"	0.0	-10.6"	-38.0"	-88.3"	-167.4"	-279.9"
TRAJ: 200 yds. zero	-1.5"	5.3"	0.0	-22.1"	-67.1"	-141.0"	-248.2"
TRAJ: 300 yds. zero	-1.5"	12.7"	14.7"	0.0	-37.6"	-104.2"	-204.0"
TRAJ: 400 yds. zero	-1.5"	22.1"	33.5"	28.2"	0.0	-57.1"	-147.5"
TRAJ: 500 yds. zero	-1.5"	33.5"	56.4"	62.5"	45.7"	0.0	-79.0"
TRAJ: 600 yds. zero	-1.5"	46.7"	82.7"	102.0"	98.3"	65.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1900	1615	1370	1178	1049	964	900
ENERGY (ft.-lbs.)	1002	724	521	385	305	258	225
TRAJ: 100 yds. zero	-1.5"	0.0	-11.9"	-42.5"	-98.1"	-184.3"	-305.3"
TRAJ: 200 yds. zero	-1.5"	6.0"	0.0	-24.6"	-74.3"	-154.5"	-269.5"
TRAJ: 300 yds. zero	-1.5"	14.2"	16.4"	0.0	-41.4"	-113.4"	-220.2"
TRAJ: 400 yds. zero	-1.5"	24.5"	37.1"	31.1"	0.0	-61.6"	-158.1"
TRAJ: 500 yds. zero	-1.5"	36.9"	61.8"	68.0"	49.3"	0.0	-84.1"
TRAJ: 600 yds. zero	-1.5"	50.9"	89.8"	110.1"	105.4"	70.1"	0.0
VELOCITY (fps)	1800	1527	1299	1128	1017	941	881
ENERGY (ft.-lbs.)	899	647	468	353	287	246	215
TRAJ: 100 yds. zero	-1.5"	0.0	-13.5"	-47.8"	-109.1"	-202.7"	-332.8"
TRAJ: 200 yds. zero	-1.5"	6.8"	0.0	-27.5"	-82.1"	-168.8"	-292.2"
TRAJ: 300 yds. zero	-1.5"	15.9"	18.3"	0.0	-45.4"	-123.0"	-237.2"
TRAJ: 400 yds. zero	-1.5"	27.3"	41.0"	34.1"	0.0	-66.3"	-169.1"
TRAJ: 500 yds. zero	-1.5"	40.5"	67.5"	73.8"	53.0"	0.0	-89.6"
TRAJ: 600 yds. zero	-1.5"	55.5"	97.4"	118.6"	112.7"	74.7"	0.0

8MM CALIBER (.323" Dia.) 150 GRAIN SPIRE POINT
SECTIONAL DENSITY: .205 BALLISTIC COEFFICIENT: .290

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3138	2805	2495	2206	1937	1689
ENERGY (ft.-lbs.)	4079	3280	2620	2074	1621	1249	950
TRAJ: 100 yds. zero	-1.5"	0.0	-2.0"	-8.5"	-20.6"	-39.8"	-68.4"
TRAJ: 200 yds. zero	-1.5"	1.0"	0.0	-5.5"	-16.5"	-34.7"	-62.3"
TRAJ: 300 yds. zero	-1.5"	2.8"	3.6"	0.0	-9.2"	-25.6"	-51.4"
TRAJ: 400 yds. zero	-1.5"	5.1"	8.3"	6.9"	0.0	-14.1"	-37.5"
TRAJ: 500 yds. zero	-1.5"	8.0"	13.9"	15.4"	11.3"	0.0	-20.6"
TRAJ: 600 yds. zero	-1.5"	11.4"	20.8"	25.7"	25.0"	17.2"	0.0
VELOCITY (fps)	3400	3046	2720	2416	2132	1868	1627
ENERGY (ft.-lbs.)	3850	3091	2464	1944	1514	1162	882
TRAJ: 100 yds. zero	-1.5"	0.0	-2.3"	-9.2"	-22.2"	-42.8"	-73.5"
TRAJ: 200 yds. zero	-1.5"	1.1"	0.0	-5.8"	-17.7"	-37.2"	-66.7"
TRAJ: 300 yds. zero	-1.5"	3.1"	3.9"	0.0	-9.9"	-27.4"	-55.0"
TRAJ: 400 yds. zero	-1.5"	5.5"	8.8"	7.4"	0.0	-15.1"	-40.2"
TRAJ: 500 yds. zero	-1.5"	8.6"	14.9"	16.5"	12.1"	0.0	-22.1"
TRAJ: 600 yds. zero	-1.5"	12.2"	22.2"	27.5"	26.8"	18.4"	0.0
VELOCITY (fps)	3300	2954	2635	2336	2058	1800	1566
ENERGY (ft.-lbs.)	3626	2907	2311	1818	1410	1079	817
TRAJ: 100 yds. zero	-1.5"	0.0	-2.5"	-10.0"	-23.9"	-46.1"	-79.1"
TRAJ: 200 yds. zero	-1.5"	1.2"	0.0	-6.3"	-19.0"	-39.9"	-71.6"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.2"	0.0	-10.6"	-29.4"	-59.1"
TRAJ: 400 yds. zero	-1.5"	6.0"	9.5"	7.9"	0.0	-16.2"	-43.2"
TRAJ: 500 yds. zero	-1.5"	9.2"	16.0"	17.7"	13.0"	0.0	-23.8"
TRAJ: 600 yds. zero	-1.5"	13.2"	23.9"	29.5"	28.8"	19.8"	0.0
VELOCITY (fps)	3200	2862	2549	2256	1983	1732	1505
ENERGY (ft.-lbs.)	3410	2728	2163	1695	1310	998	755
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.9"	-25.9"	-49.8"	-85.4"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.8"	-20.4"	-42.9"	-77.1"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.5"	0.0	-11.4"	-31.6"	-63.6"
TRAJ: 400 yds. zero	-1.5"	6.5"	10.2"	8.5"	0.0	-17.4"	-46.5"
TRAJ: 500 yds. zero	-1.5"	10.0"	17.2"	19.0"	13.9"	0.0	-25.6"
TRAJ: 600 yds. zero	-1.5"	14.2"	25.7"	31.8"	31.0"	21.4"	0.0
VELOCITY (fps)	3100	2770	2462	2175	1908	1664	1446
ENERGY (ft.-lbs.)	3200	2555	2019	1576	1213	922	696
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.9"	-28.1"	-53.9"	-92.4"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.3"	-22.0"	-46.2"	-83.2"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.9"	0.0	-12.2"	-34.1"	-68.6"
TRAJ: 400 yds. zero	-1.5"	7.0"	11.0"	9.2"	0.0	-18.8"	-50.3"
TRAJ: 500 yds. zero	-1.5"	10.8"	18.5"	20.5"	15.0"	0.0	-27.7"
TRAJ: 600 yds. zero	-1.5"	15.4"	27.7"	34.3"	33.5"	23.1"	0.0
VELOCITY (fps)	3000	2677	2376	2095	1834	1596	1388
ENERGY (ft.-lbs.)	2997	2386	1880	1461	1120	849	642
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.9"	-30.5"	-58.4"	-100.2"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.9"	-23.7"	-50.0"	-90.0"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.3"	0.0	-13.2"	-36.9"	-74.3"
TRAJ: 400 yds. zero	-1.5"	7.6"	11.9"	9.9"	0.0	-20.3"	-54.5"
TRAJ: 500 yds. zero	-1.5"	11.7"	20.0"	22.1"	16.3"	0.0	-30.1"
TRAJ: 600 yds. zero	-1.5"	16.7"	30.0"	37.1"	36.3"	25.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2584	2289	2014	1759	1530	1332
ENERGY (ft.-lbs.)	2801	2223	1745	1350	1031	780	591
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-14.1"	-33.2"	-63.5"	-108.9"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.5"	-25.7"	-54.2"	-97.7"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.7"	0.0	-14.3"	-40.0"	-80.6"
TRAJ: 400 yds. zero	-1.5"	8.3"	12.8"	10.7"	0.0	-22.1"	-59.1"
TRAJ: 500 yds. zero	-1.5"	12.7"	21.7"	24.0"	17.6"	0.0	-32.7"
TRAJ: 600 yds. zero	-1.5"	18.1"	32.6"	40.3"	39.4"	27.2"	0.0
VELOCITY (fps)	2800	2491	2202	1933	1686	1465	1279
ENERGY (ft.-lbs.)	2611	2066	1615	1244	946	715	545
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-15.5"	-36.2"	-69.2"	-118.7"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.3"	-27.9"	-58.9"	-106.3"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.2"	0.0	-15.6"	-43.5"	-87.7"
TRAJ: 400 yds. zero	-1.5"	9.0"	14.0"	11.7"	0.0	-24.0"	-64.4"
TRAJ: 500 yds. zero	-1.5"	13.8"	23.6"	26.1"	19.2"	0.0	-35.6"
TRAJ: 600 yds. zero	-1.5"	19.8"	35.4"	43.9"	42.9"	29.6"	0.0
VELOCITY (fps)	2700	2397	2115	1852	1613	1402	1228
ENERGY (ft.-lbs.)	2428	1914	1489	1143	866	655	503
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-17.0"	-39.6"	-75.7"	-129.6"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.1"	-30.4"	-64.2"	-115.9"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.7"	0.0	-16.9"	-47.4"	-95.7"
TRAJ: 400 yds. zero	-1.5"	9.9"	15.2"	12.7"	0.0	-26.2"	-70.3"
TRAJ: 500 yds. zero	-1.5"	15.1"	25.7"	28.4"	21.0"	0.0	-38.8"
TRAJ: 600 yds. zero	-1.5"	21.6"	38.6"	47.8"	46.8"	32.4"	0.0
VELOCITY (fps)	2600	2304	2028	1772	1542	1342	1182
ENERGY (ft.-lbs.)	2251	1768	1369	1046	791	600	465
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-18.7"	-43.4"	-82.9"	-142.0"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-11.1"	-33.3"	-70.2"	-126.7"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.4"	0.0	-18.5"	-51.8"	-104.6"
TRAJ: 400 yds. zero	-1.5"	10.9"	16.6"	13.9"	0.0	-28.7"	-76.8"
TRAJ: 500 yds. zero	-1.5"	16.6"	28.1"	31.1"	22.9"	0.0	-42.4"
TRAJ: 600 yds. zero	-1.5"	23.7"	42.2"	52.3"	51.2"	35.4"	0.0
VELOCITY (fps)	2500	2211	1941	1693	1472	1284	1139
ENERGY (ft.-lbs.)	2081	1627	1254	955	721	549	432
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-20.6"	-47.8"	-91.1"	-155.8"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-12.1"	-36.5"	-77.0"	-138.8"
TRAJ: 300 yds. zero	-1.5"	6.9"	8.1"	0.0	-20.3"	-56.8"	-114.6"
TRAJ: 400 yds. zero	-1.5"	11.9"	18.2"	15.2"	0.0	-31.4"	-84.1"
TRAJ: 500 yds. zero	-1.5"	18.2"	30.8"	34.1"	25.1"	0.0	-46.4"
TRAJ: 600 yds. zero	-1.5"	26.0"	46.3"	57.3"	56.1"	38.7"	0.0
VELOCITY (fps)	2400	2117	1855	1615	1404	1230	1101
ENERGY (ft.-lbs.)	1918	1493	1145	869	657	504	403
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-22.8"	-52.7"	-100.4"	-171.3"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.3"	-40.1"	-84.6"	-152.3"
TRAJ: 300 yds. zero	-1.5"	7.6"	8.9"	0.0	-22.3"	-62.4"	-125.7"
TRAJ: 400 yds. zero	-1.5"	13.2"	20.0"	16.7"	0.0	-34.5"	-92.2"
TRAJ: 500 yds. zero	-1.5"	20.1"	33.9"	37.5"	27.6"	0.0	-50.8"
TRAJ: 600 yds. zero	-1.5"	28.5"	50.8"	62.8"	61.5"	42.3"	0.0
VELOCITY (fps)	2300	2024	1769	1539	1339	1180	1066
ENERGY (ft.-lbs.)	1762	1364	1042	788	597	463	379
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-25.3"	-58.3"	-110.9"	-188.5"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-14.7"	-44.2"	-93.3"	-167.3"
TRAJ: 300 yds. zero	-1.5"	8.4"	9.8"	0.0	-24.6"	-68.8"	-137.9"
TRAJ: 400 yds. zero	-1.5"	14.6"	22.1"	18.5"	0.0	-38.0"	-101.0"
TRAJ: 500 yds. zero	-1.5"	22.2"	37.3"	41.3"	30.4"	0.0	-55.4"
TRAJ: 600 yds. zero	-1.5"	31.4"	55.8"	69.0"	67.3"	46.2"	0.0
VELOCITY (fps)	2200	1931	1684	1464	1278	1134	1035
ENERGY (ft.-lbs.)	1612	1242	945	714	544	429	357
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-28.1"	-64.7"	-122.7"	-207.5"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-16.3"	-48.9"	-103.0"	-183.9"
TRAJ: 300 yds. zero	-1.5"	9.4"	10.9"	0.0	-27.2"	-75.8"	-151.3"
TRAJ: 400 yds. zero	-1.5"	16.2"	24.5"	20.4"	0.0	-41.9"	-110.5"
TRAJ: 500 yds. zero	-1.5"	24.5"	41.2"	45.5"	33.5"	0.0	-60.3"
TRAJ: 600 yds. zero	-1.5"	34.6"	61.3"	75.6"	73.7"	50.2"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2100	1839	1601	1392	1220	1094	1007
ENERGY (ft.-lbs.)	1469	1126	853	645	496	399	338
TRAJ: 100 yds. zero	-1.5"	0.0	-8.8"	-31.4"	-71.9"	-136.0"	-228.5"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-18.1"	-54.2"	-113.8"	-201.9"
TRAJ: 300 yds. zero	-1.5"	10.5"	12.1"	0.0	-30.1"	-83.7"	-165.7"
TRAJ: 400 yds. zero	-1.5"	18.0"	27.1"	22.6"	0.0	-46.0"	-120.6"
TRAJ: 500 yds. zero	-1.5"	27.2"	45.5"	50.2"	36.8"	0.0	-65.3"
TRAJ: 600 yds. zero	-1.5"	38.1"	67.3"	82.9"	80.4"	54.4"	0.0
VELOCITY (fps)	2000	1747	1519	1323	1168	1058	982
ENERGY (ft.-lbs.)	1332	1016	768	583	454	373	321
TRAJ: 100 yds. zero	-1.5"	0.0	-10.0"	-35.1"	-80.2"	-150.8"	-251.4"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-20.1"	-60.3"	-125.8"	-221.5"
TRAJ: 300 yds. zero	-1.5"	11.7"	13.4"	0.0	-33.4"	-92.3"	-181.2"
TRAJ: 400 yds. zero	-1.5"	20.0"	30.1"	25.1"	0.0	-50.5"	-131.1"
TRAJ: 500 yds. zero	-1.5"	30.2"	50.3"	55.4"	40.4"	0.0	-70.5"
TRAJ: 600 yds. zero	-1.5"	41.9"	73.8"	90.6"	87.4"	58.8"	0.0
VELOCITY (fps)	1900	1656	1439	1258	1120	1026	958
ENERGY (ft.-lbs.)	1202	913	690	527	418	350	305
TRAJ: 100 yds. zero	-1.5"	0.0	-11.3"	-39.4"	-89.6"	-167.2"	-276.5"
TRAJ: 200 yds. zero	-1.5"	5.6"	0.0	-22.5"	-67.1"	-139.1"	-242.7"
TRAJ: 300 yds. zero	-1.5"	13.1"	15.0"	0.0	-37.1"	-101.6"	-197.7"
TRAJ: 400 yds. zero	-1.5"	22.4"	33.5"	27.8"	0.0	-55.2"	-142.1"
TRAJ: 500 yds. zero	-1.5"	33.4"	55.6"	60.9"	44.2"	0.0	-75.9"
TRAJ: 600 yds. zero	-1.5"	46.1"	80.9"	98.9"	94.8"	63.2"	0.0
VELOCITY (fps)	1800	1566	1363	1197	1078	996	935
ENERGY (ft.-lbs.)	1079	817	618	478	387	331	291
TRAJ: 100 yds. zero	-1.5"	0.0	-12.8"	-44.3"	-100.2"	-185.3"	-303.8"
TRAJ: 200 yds. zero	-1.5"	6.4"	0.0	-25.2"	-74.6"	-153.4"	-265.5"
TRAJ: 300 yds. zero	-1.5"	14.8"	16.8"	0.0	-41.0"	-111.4"	-215.1"
TRAJ: 400 yds. zero	-1.5"	25.0"	37.3"	30.8"	0.0	-60.1"	-153.6"
TRAJ: 500 yds. zero	-1.5"	37.1"	61.4"	66.9"	48.1"	0.0	-81.4"
TRAJ: 600 yds. zero	-1.5"	50.6"	88.5"	107.6"	102.4"	67.8"	0.0
VELOCITY (fps)	1700	1478	1289	1143	1041	969	913
ENERGY (ft.-lbs.)	962	727	553	435	361	313	278
TRAJ: 100 yds. zero	-1.5"	0.0	-14.5"	-50.0"	-112.0"	-205.2"	-333.5"
TRAJ: 200 yds. zero	-1.5"	7.3"	0.0	-28.2"	-83.0"	-168.9"	-290.0"
TRAJ: 300 yds. zero	-1.5"	16.7"	18.8"	0.0	-45.3"	-121.8"	-233.5"
TRAJ: 400 yds. zero	-1.5"	28.0"	41.5"	34.0"	0.0	-65.2"	-165.5"
TRAJ: 500 yds. zero	-1.5"	41.0"	67.6"	73.1"	52.2"	0.0	-87.3"
TRAJ: 600 yds. zero	-1.5"	55.6"	96.7"	116.7"	110.3"	72.7"	0.0

8MM CALIBER (.323" Dia.) 170 GRAIN ROUND NOSE
SECTIONAL DENSITY: .233 BALLISTIC COEFFICIENT: .217

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	3200	2971	2754	2547	2350	2161	1981
ENERGY (ft.-lbs.)	3865	3332	2863	2449	2084	1762	1481
TRAJ: 50 yds. zero	-1.5"	0.0	0.5"	-0.1"	-2.1"	-5.6"	-11.1"
TRAJ: 100 yds. zero	-1.5"	-0.3"	0.0	-0.9"	-3.1"	-6.9"	-12.6"
TRAJ: 150 yds. zero	-1.5"	0.0	0.6"	0.0	-1.9"	-5.4"	-10.8"
TRAJ: 200 yds. zero	-1.5"	0.5"	1.6"	1.5"	0.0	-3.0"	-7.9"
TRAJ: 250 yds. zero	-1.5"	1.1"	2.8"	3.3"	2.4"	0.0	-4.3"
TRAJ: 300 yds. zero	-1.5"	1.8"	4.2"	5.4"	5.3"	3.6"	0.0
VELOCITY (fps)	3100	2877	2664	2461	2267	2082	1906
ENERGY (ft.-lbs.)	3627	3123	2678	2286	1940	1636	1371
TRAJ: 50 yds. zero	-1.5"	0.0	0.4"	-0.3"	-2.5"	-6.5"	-12.4"
TRAJ: 100 yds. zero	-1.5"	-0.2"	0.0	-1.0"	-3.4"	-7.6"	-13.7"
TRAJ: 150 yds. zero	-1.5"	0.1"	0.7"	0.0	-2.1"	-5.9"	-11.7"
TRAJ: 200 yds. zero	-1.5"	0.6"	1.7"	1.6"	0.0	-3.3"	-8.6"
TRAJ: 250 yds. zero	-1.5"	1.3"	3.0"	3.5"	2.6"	0.0	-4.6"
TRAJ: 300 yds. zero	-1.5"	2.1"	4.6"	5.9"	5.7"	3.9"	0.0
VELOCITY (fps)	3000	2781	2573	2375	2185	2003	1831
ENERGY (ft.-lbs.)	3397	2920	2499	2128	1801	1515	1266
TRAJ: 50 yds. zero	-1.5"	0.0	0.4"	-0.6"	-3.0"	-7.4"	-13.8"
TRAJ: 100 yds. zero	-1.5"	-0.2"	0.0	-1.1"	-3.8"	-8.3"	-15.0"
TRAJ: 150 yds. zero	-1.5"	0.2"	0.8"	0.0	-2.3"	-6.4"	-12.7"
TRAJ: 200 yds. zero	-1.5"	0.8"	1.9"	1.7"	0.0	-3.5"	-9.3"
TRAJ: 250 yds. zero	-1.5"	1.5"	3.3"	3.8"	2.8"	0.0	-5.0"
TRAJ: 300 yds. zero	-1.5"	2.3"	5.0"	6.4"	6.2"	4.2"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2900	2686	2482	2288	2102	1924	1757
ENERGY (ft.-lbs.)	3174	2723	2326	1975	1667	1398	1165
TRAJ: 50 yds. zero	-1.5"	0.0	0.3"	-0.8"	-3.6"	-8.4"	-15.5"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.3"	-4.2"	-9.1"	-16.4"
TRAJ: 150 yds. zero	-1.5"	0.3"	0.8"	0.0	-2.5"	-7.0"	-13.8"
TRAJ: 200 yds. zero	-1.5"	0.9"	2.1"	1.9"	0.0	-3.9"	-10.1"
TRAJ: 250 yds. zero	-1.5"	1.7"	3.6"	4.2"	3.1"	0.0	-5.4"
TRAJ: 300 yds. zero	-1.5"	2.6"	5.5"	6.9"	6.7"	4.5"	0.0
VELOCITY (fps)	2800	2591	2391	2201	2019	1846	1684
ENERGY (ft.-lbs.)	2959	2534	2158	1828	1538	1286	1070
TRAJ: 50 yds. zero	-1.5"	0.0	0.2"	-1.1"	-4.2"	-9.5"	-17.3"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.4"	-4.6"	-10.0"	-17.9"
TRAJ: 150 yds. zero	-1.5"	0.4"	0.9"	0.0	-2.7"	-7.6"	-15.1"
TRAJ: 200 yds. zero	-1.5"	1.1"	2.3"	2.1"	0.0	-4.2"	-11.0"
TRAJ: 250 yds. zero	-1.5"	1.9"	4.0"	4.6"	3.4"	0.0	-5.9"
TRAJ: 300 yds. zero	-1.5"	2.9"	6.0"	7.5"	7.3"	4.9"	0.0
VELOCITY (fps)	2700	2496	2300	2114	1936	1768	1611
ENERGY (ft.-lbs.)	2751	2350	1997	1686	1414	1180	979
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.4"	-4.9"	-10.8"	-19.4"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.6"	-5.1"	-11.0"	-19.7"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.1"	0.0	-3.0"	-8.4"	-16.5"
TRAJ: 200 yds. zero	-1.5"	1.2"	2.6"	2.3"	0.0	-4.6"	-12.0"
TRAJ: 250 yds. zero	-1.5"	2.2"	4.4"	5.0"	3.7"	0.0	-6.5"
TRAJ: 300 yds. zero	-1.5"	3.2"	6.6"	8.2"	8.0"	5.4"	0.0
VELOCITY (fps)	2600	2400	2209	2026	1853	1691	1540
ENERGY (ft.-lbs.)	2551	2174	1841	1550	1296	1079	895
TRAJ: 50 yds. zero	-1.5"	0.0	-0.0"	-1.8"	-5.7"	-12.2"	-21.7"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.8"	-5.7"	-12.2"	-21.7"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.2"	0.0	-3.3"	-9.2"	-18.1"
TRAJ: 200 yds. zero	-1.5"	1.4"	2.9"	2.5"	0.0	-5.0"	-13.1"
TRAJ: 250 yds. zero	-1.5"	2.4"	4.9"	5.5"	4.0"	0.0	-7.1"
TRAJ: 300 yds. zero	-1.5"	3.6"	7.2"	9.0"	8.7"	5.9"	0.0
VELOCITY (fps)	2500	2304	2118	1940	1771	1614	1470
ENERGY (ft.-lbs.)	2359	2004	1692	1420	1184	984	815
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.2"	-6.6"	-13.8"	-24.3"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.0"	-6.3"	-13.4"	-23.9"
TRAJ: 150 yds. zero	-1.5"	0.7"	1.3"	0.0	-3.7"	-10.1"	-19.9"
TRAJ: 200 yds. zero	-1.5"	1.7"	3.2"	2.7"	0.0	-5.5"	-14.4"
TRAJ: 250 yds. zero	-1.5"	2.8"	5.4"	6.1"	4.4"	0.0	-7.8"
TRAJ: 300 yds. zero	-1.5"	4.1"	8.0"	9.9"	9.6"	6.5"	0.0
VELOCITY (fps)	2400	2209	2026	1853	1691	1540	1402
ENERGY (ft.-lbs.)	2174	1841	1550	1296	1079	895	742
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-2.7"	-7.6"	-15.6"	-27.3"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.3"	-7.1"	-14.9"	-26.5"
TRAJ: 150 yds. zero	-1.5"	0.9"	1.5"	0.0	-4.0"	-11.1"	-21.9"
TRAJ: 200 yds. zero	-1.5"	1.9"	3.5"	3.0"	0.0	-6.1"	-15.9"
TRAJ: 250 yds. zero	-1.5"	3.1"	6.0"	6.7"	4.9"	0.0	-8.6"
TRAJ: 300 yds. zero	-1.5"	4.6"	8.8"	11.0"	10.6"	7.1"	0.0
VELOCITY (fps)	2300	2113	1936	1768	1611	1467	1338
ENERGY (ft.-lbs.)	1997	1686	1414	1179	979	812	675
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.2"	-8.8"	-17.7"	-30.7"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.6"	-7.9"	-16.6"	-29.4"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.7"	0.0	-4.5"	-12.3"	-24.3"
TRAJ: 200 yds. zero	-1.5"	2.2"	3.9"	3.4"	0.0	-6.7"	-17.5"
TRAJ: 250 yds. zero	-1.5"	3.5"	6.6"	7.4"	5.4"	0.0	-9.4"
TRAJ: 300 yds. zero	-1.5"	5.1"	9.8"	12.1"	11.7"	7.9"	0.0
VELOCITY (fps)	2200	2018	1845	1683	1533	1396	1276
ENERGY (ft.-lbs.)	1827	1537	1285	1069	887	736	615
TRAJ: 50 yds. zero	-1.5"	0.0	-0.6"	-3.8"	-10.1"	-20.1"	-34.6"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.9"	-8.8"	-18.5"	-32.7"
TRAJ: 150 yds. zero	-1.5"	1.3"	1.9"	0.0	-5.0"	-13.7"	-26.9"
TRAJ: 200 yds. zero	-1.5"	2.5"	4.4"	3.7"	0.0	-7.5"	-19.4"
TRAJ: 250 yds. zero	-1.5"	4.0"	7.4"	8.2"	6.0"	0.0	-10.4"
TRAJ: 300 yds. zero	-1.5"	5.8"	10.9"	13.4"	12.9"	8.7"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2100	1923	1756	1600	1457	1329	1219
ENERGY (ft.-lbs.)	1664	1396	1164	966	801	666	561
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-4.5"	-11.6"	-22.8"	-39.0"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.3"	-9.9"	-20.7"	-36.4"
TRAJ: 150 yds. zero	-1.5"	1.5"	2.2"	0.0	-5.6"	-15.3"	-29.9"
TRAJ: 200 yds. zero	-1.5"	2.9"	5.0"	4.2"	0.0	-8.3"	-21.5"
TRAJ: 250 yds. zero	-1.5"	4.6"	8.3"	9.2"	6.6"	0.0	-11.6"
TRAJ: 300 yds. zero	-1.5"	6.5"	12.1"	14.9"	14.4"	9.7"	0.0
VELOCITY (fps)	2000	1828	1667	1518	1383	1265	1166
ENERGY (ft.-lbs.)	1510	1262	1049	870	722	604	513
TRAJ: 50 yds. zero	-1.5"	0.0	-1.1"	-5.3"	-13.4"	-26.0"	-44.0"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.7"	-11.2"	-23.2"	-40.7"
TRAJ: 150 yds. zero	-1.5"	1.8"	2.5"	0.0	-6.2"	-17.0"	-33.3"
TRAJ: 200 yds. zero	-1.5"	3.3"	5.6"	4.7"	0.0	-9.2"	-23.9"
TRAJ: 250 yds. zero	-1.5"	5.2"	9.3"	10.2"	7.4"	0.0	-12.8"
TRAJ: 300 yds. zero	-1.5"	7.3"	13.6"	16.6"	16.0"	10.7"	0.0
VELOCITY (fps)	1900	1734	1580	1439	1313	1206	1119
ENERGY (ft.-lbs.)	1362	1135	942	781	651	549	473
TRAJ: 50 yds. zero	-1.5"	0.0	-1.4"	-6.3"	-15.4"	-29.5"	-49.7"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.2"	-12.6"	-26.1"	-45.5"
TRAJ: 150 yds. zero	-1.5"	2.1"	2.8"	0.0	-7.0"	-19.1"	-37.1"
TRAJ: 200 yds. zero	-1.5"	3.8"	6.3"	5.3"	0.0	-10.3"	-26.6"
TRAJ: 250 yds. zero	-1.5"	5.9"	10.4"	11.4"	8.3"	0.0	-14.2"
TRAJ: 300 yds. zero	-1.5"	8.3"	15.2"	18.6"	17.7"	11.9"	0.0
VELOCITY (fps)	1800	1641	1494	1362	1247	1152	1077
ENERGY (ft.-lbs.)	1223	1016	842	700	587	501	438
TRAJ: 50 yds. zero	-1.5"	0.0	-1.7"	-7.4"	-17.7"	-33.7"	-56.1"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-4.8"	-14.2"	-29.3"	-50.9"
TRAJ: 150 yds. zero	-1.5"	2.5"	3.2"	0.0	-7.9"	-21.4"	-41.4"
TRAJ: 200 yds. zero	-1.5"	4.4"	7.1"	5.9"	0.0	-11.5"	-29.6"
TRAJ: 250 yds. zero	-1.5"	6.7"	11.7"	12.8"	9.2"	0.0	-15.8"
TRAJ: 300 yds. zero	-1.5"	9.4"	17.0"	20.7"	19.7"	13.1"	0.0
VELOCITY (fps)	1700	1548	1410	1288	1185	1103	1040
ENERGY (ft.-lbs.)	1091	905	750	626	530	459	408
TRAJ: 50 yds. zero	-1.5"	0.0	-2.1"	-8.6"	-20.4"	-38.4"	-63.4"
TRAJ: 100 yds. zero	-1.5"	1.1"	0.0	-5.4"	-16.1"	-33.0"	-57.0"
TRAJ: 150 yds. zero	-1.5"	2.9"	3.6"	0.0	-8.9"	-23.9"	-46.1"
TRAJ: 200 yds. zero	-1.5"	5.1"	8.1"	6.7"	0.0	-12.8"	-32.8"
TRAJ: 250 yds. zero	-1.5"	7.7"	13.2"	14.4"	10.3"	0.0	-17.3"
TRAJ: 300 yds. zero	-1.5"	10.6"	19.0"	23.0"	21.8"	14.5"	0.0
VELOCITY (fps)	1600	1457	1329	1219	1130	1061	1007
ENERGY (ft.-lbs.)	966	801	667	561	482	424	382
TRAJ: 50 yds. zero	-1.5"	0.0	-2.6"	-10.1"	-23.5"	-43.7"	-71.4"
TRAJ: 100 yds. zero	-1.5"	1.3"	0.0	-6.2"	-18.3"	-37.2"	-63.6"
TRAJ: 150 yds. zero	-1.5"	3.4"	4.2"	0.0	-10.0"	-26.8"	-51.2"
TRAJ: 200 yds. zero	-1.5"	5.9"	9.2"	7.5"	0.0	-14.3"	-36.2"
TRAJ: 250 yds. zero	-1.5"	8.7"	14.9"	16.1"	11.4"	0.0	-19.0"
TRAJ: 300 yds. zero	-1.5"	11.9"	21.2"	25.6"	24.1"	15.9"	0.0
VELOCITY (fps)	1500	1367	1251	1155	1080	1022	975
ENERGY (ft.-lbs.)	849	705	591	504	440	394	359
TRAJ: 50 yds. zero	-1.5"	0.0	-3.2"	-11.9"	-27.1"	-49.7"	-80.4"
TRAJ: 100 yds. zero	-1.5"	1.6"	0.0	-7.1"	-20.8"	-41.8"	-70.9"
TRAJ: 150 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.3"	-29.9"	-56.7"
TRAJ: 200 yds. zero	-1.5"	6.8"	10.4"	8.4"	0.0	-15.8"	-39.8"
TRAJ: 250 yds. zero	-1.5"	9.9"	16.7"	17.9"	12.7"	0.0	-20.8"
TRAJ: 300 yds. zero	-1.5"	13.4"	23.6"	28.3"	26.5"	17.3"	0.0

8MM CALIBER (.323" Dia.) 220 GRAIN SPIRE POINT
SECTIONAL DENSITY: .301 BALLISTIC COEFFICIENT: .464

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2700	2508	2325	2149	1981	1821
ENERGY (ft.-lbs.)	4108	3560	3073	2640	2255	1916	1619
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.1"	-27.3"	-50.1"	-81.8"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.2"	-20.8"	-41.9"	-72.0"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.2"	-30.0"	-57.6"
TRAJ: 400 yds. zero	-1.5"	6.8"	10.4"	8.4"	0.0	-16.0"	-40.8"
TRAJ: 500 yds. zero	-1.5"	10.0"	16.8"	18.0"	12.8"	0.0	-21.6"
TRAJ: 600 yds. zero	-1.5"	13.6"	24.0"	28.8"	27.2"	18.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2800	2604	2417	2237	2065	1901	1745
ENERGY (ft.-lbs.)	3829	3312	2853	2444	2082	1764	1488
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.2"	-29.8"	-54.5"	-88.9"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.8"	-22.5"	-45.4"	-78.0"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.2"	0.0	-12.1"	-32.5"	-62.4"
TRAJ: 400 yds. zero	-1.5"	7.4"	11.3"	9.1"	0.0	-17.3"	-44.2"
TRAJ: 500 yds. zero	-1.5"	10.9"	18.2"	19.5"	13.8"	0.0	-23.5"
TRAJ: 600 yds. zero	-1.5"	14.8"	26.0"	31.2"	29.5"	19.6"	0.0
VELOCITY (fps)	2700	2508	2325	2149	1981	1821	1670
ENERGY (ft.-lbs.)	3561	3073	2640	2256	1916	1620	1363
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.5"	-32.5"	-59.4"	-96.8"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.5"	-24.5"	-49.3"	-84.7"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.6"	0.0	-13.2"	-35.2"	-67.8"
TRAJ: 400 yds. zero	-1.5"	8.1"	12.2"	9.9"	0.0	-18.8"	-48.0"
TRAJ: 500 yds. zero	-1.5"	11.9"	19.7"	21.1"	15.0"	0.0	-25.5"
TRAJ: 600 yds. zero	-1.5"	16.1"	28.2"	33.9"	32.0"	21.3"	0.0
VELOCITY (fps)	2600	2413	2233	2061	1897	1742	1597
ENERGY (ft.-lbs.)	3302	2843	2436	2075	1758	1482	1245
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-15.9"	-35.6"	-65.0"	-105.8"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.2"	-26.6"	-53.7"	-92.3"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.1"	0.0	-14.3"	-38.4"	-73.9"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.3"	10.8"	0.0	-20.4"	-52.4"
TRAJ: 500 yds. zero	-1.5"	13.0"	21.5"	23.0"	16.4"	0.0	-27.9"
TRAJ: 600 yds. zero	-1.5"	17.6"	30.8"	37.0"	34.9"	23.2"	0.0
VELOCITY (fps)	2500	2317	2141	1973	1814	1664	1524
ENERGY (ft.-lbs.)	3053	2622	2239	1902	1607	1352	1135
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-17.6"	-39.1"	-71.2"	-115.9"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.1"	-29.1"	-58.8"	-101.0"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.7"	0.0	-15.7"	-41.9"	-80.8"
TRAJ: 400 yds. zero	-1.5"	9.8"	14.6"	11.8"	0.0	-22.3"	-57.3"
TRAJ: 500 yds. zero	-1.5"	14.2"	23.5"	25.2"	17.9"	0.0	-30.5"
TRAJ: 600 yds. zero	-1.5"	19.3"	33.7"	40.4"	38.2"	25.4"	0.0
VELOCITY (fps)	2400	2221	2050	1886	1732	1587	1454
ENERGY (ft.-lbs.)	2813	2409	2052	1738	1464	1230	1032
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-19.4"	-43.1"	-78.3"	-127.5"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.1"	-31.9"	-64.4"	-110.8"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.4"	0.0	-17.2"	-46.0"	-88.6"
TRAJ: 400 yds. zero	-1.5"	10.8"	16.0"	12.9"	0.0	-24.5"	-62.9"
TRAJ: 500 yds. zero	-1.5"	15.7"	25.8"	27.6"	19.6"	0.0	-33.5"
TRAJ: 600 yds. zero	-1.5"	21.2"	36.9"	44.3"	41.9"	27.9"	0.0
VELOCITY (fps)	2300	2125	1958	1799	1650	1512	1386
ENERGY (ft.-lbs.)	2584	2206	1873	1582	1330	1116	938
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-21.5"	-47.6"	-86.4"	-140.6"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.2"	-35.1"	-70.9"	-121.9"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.1"	0.0	-18.9"	-50.6"	-97.6"
TRAJ: 400 yds. zero	-1.5"	11.9"	17.6"	14.2"	0.0	-27.0"	-69.2"
TRAJ: 500 yds. zero	-1.5"	17.3"	28.4"	30.3"	21.6"	0.0	-36.9"
TRAJ: 600 yds. zero	-1.5"	23.4"	40.6"	48.8"	46.1"	30.7"	0.0
VELOCITY (fps)	2200	2030	1867	1714	1570	1439	1321
ENERGY (ft.-lbs.)	2364	2012	1703	1434	1204	1011	852
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-23.9"	-52.7"	-95.7"	-155.5"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.5"	-38.8"	-78.3"	-134.6"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.0"	0.0	-20.8"	-55.8"	-107.7"
TRAJ: 400 yds. zero	-1.5"	13.2"	19.4"	15.6"	0.0	-29.8"	-76.4"
TRAJ: 500 yds. zero	-1.5"	19.1"	31.3"	33.5"	23.8"	0.0	-40.7"
TRAJ: 600 yds. zero	-1.5"	25.9"	44.9"	53.8"	51.0"	33.9"	0.0
VELOCITY (fps)	2100	1934	1777	1629	1492	1368	1259
ENERGY (ft.-lbs.)	2154	1827	1542	1296	1088	914	774
TRAJ: 100 yds. zero	-1.5"	0.0	-7.8"	-26.7"	-58.6"	-106.3"	-172.5"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-14.9"	-43.0"	-86.7"	-149.1"
TRAJ: 300 yds. zero	-1.5"	8.9"	10.0"	0.0	-23.1"	-61.8"	-119.2"
TRAJ: 400 yds. zero	-1.5"	14.7"	21.5"	17.3"	0.0	-33.0"	-84.6"
TRAJ: 500 yds. zero	-1.5"	21.3"	34.7"	37.1"	26.4"	0.0	-45.0"
TRAJ: 600 yds. zero	-1.5"	28.8"	49.7"	59.6"	56.4"	37.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2000	1839	1687	1546	1417	1301	1202
ENERGY (ft.-lbs.)	1954	1652	1391	1167	980	827	706
TRAJ: 100 yds. zero	-1.5"	0.0	-8.8"	-29.8"	-65.4"	-118.4"	-192.0"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-16.6"	-47.8"	-96.4"	-165.7"
TRAJ: 300 yds. zero	-1.5"	9.9"	11.1"	0.0	-25.7"	-68.7"	-132.4"
TRAJ: 400 yds. zero	-1.5"	16.4"	23.9"	19.3"	0.0	-36.6"	-93.9"
TRAJ: 500 yds. zero	-1.5"	23.7"	38.6"	41.2"	29.3"	0.0	-49.9"
TRAJ: 600 yds. zero	-1.5"	32.0"	55.2"	66.2"	62.6"	41.6"	0.0

338 CALIBER (.338" Dia.) 200 GRAIN SPIRE POINT
SECTIONAL DENSITY: .250 BALLISTIC COEFFICIENT: .361

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	2927	2669	2426	2196	1979	1775
ENERGY (ft.-lbs.)	4547	3803	3164	2614	2142	1738	1399
TRAJ: 100 yds. zero	-1.5"	0.0	-2.6"	-10.0"	-23.4"	-44.0"	-73.5"
TRAJ: 200 yds. zero	-1.5"	1.3"	0.0	-6.2"	-18.3"	-37.6"	-65.8"
TRAJ: 300 yds. zero	-1.5"	3.3"	4.1"	0.0	-10.0"	-27.3"	-53.5"
TRAJ: 400 yds. zero	-1.5"	5.9"	9.1"	7.5"	0.0	-14.8"	-38.4"
TRAJ: 500 yds. zero	-1.5"	8.8"	15.0"	16.4"	11.8"	0.0	-20.7"
TRAJ: 600 yds. zero	-1.5"	12.3"	21.9"	26.7"	25.6"	17.3"	0.0
VELOCITY (fps)	3100	2833	2581	2342	2117	1904	1706
ENERGY (ft.-lbs.)	4267	3563	2957	2436	1990	1610	1292
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.9"	-25.3"	-47.6"	-79.4"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.7"	-19.7"	-40.4"	-70.9"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.4"	0.0	-10.8"	-29.4"	-57.6"
TRAJ: 400 yds. zero	-1.5"	6.3"	9.8"	8.1"	0.0	-15.9"	-41.4"
TRAJ: 500 yds. zero	-1.5"	9.5"	16.2"	17.6"	12.7"	0.0	-22.3"
TRAJ: 600 yds. zero	-1.5"	13.2"	23.6"	28.8"	27.6"	18.6"	0.0
VELOCITY (fps)	3000	2739	2492	2258	2037	1830	1637
ENERGY (ft.-lbs.)	3996	3330	2757	2264	1843	1486	1190
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.9"	-27.5"	-51.5"	-86.0"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.2"	-21.2"	-43.6"	-76.5"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.6"	-31.7"	-62.1"
TRAJ: 400 yds. zero	-1.5"	6.9"	10.6"	8.7"	0.0	-17.1"	-44.7"
TRAJ: 500 yds. zero	-1.5"	10.3"	17.5"	19.0"	13.7"	0.0	-24.1"
TRAJ: 600 yds. zero	-1.5"	14.3"	25.5"	31.1"	29.8"	20.1"	0.0
VELOCITY (fps)	2900	2644	2403	2174	1958	1755	1569
ENERGY (ft.-lbs.)	3734	3105	2563	2098	1702	1368	1094
TRAJ: 100 yds. zero	-1.5"	0.0	-3.5"	-13.0"	-29.9"	-55.9"	-93.3"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.8"	-22.9"	-47.2"	-82.8"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.2"	0.0	-12.6"	-34.2"	-67.3"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.5"	9.4"	0.0	-18.5"	-48.4"
TRAJ: 500 yds. zero	-1.5"	11.2"	18.9"	20.5"	14.8"	0.0	-26.2"
TRAJ: 600 yds. zero	-1.5"	15.5"	27.6"	33.6"	32.3"	21.8"	0.0
VELOCITY (fps)	2800	2550	2313	2089	1878	1682	1503
ENERGY (ft.-lbs.)	3481	2887	2376	1938	1566	1256	1003
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-14.2"	-32.6"	-60.9"	-101.5"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.4"	-24.9"	-51.2"	-89.9"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.6"	0.0	-13.6"	-37.2"	-73.0"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.4"	10.2"	0.0	-20.1"	-52.6"
TRAJ: 500 yds. zero	-1.5"	12.2"	20.5"	22.3"	16.1"	0.0	-28.5"
TRAJ: 600 yds. zero	-1.5"	16.9"	30.0"	36.5"	35.1"	23.7"	0.0
VELOCITY (fps)	2700	2455	2224	2005	1799	1609	1438
ENERGY (ft.-lbs.)	3237	2677	2195	1784	1437	1150	918
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-15.6"	-35.6"	-66.5"	-110.8"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.2"	-27.1"	-55.7"	-97.9"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.1"	0.0	-14.8"	-40.4"	-79.6"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.5"	11.1"	0.0	-21.9"	-57.3"
TRAJ: 500 yds. zero	-1.5"	13.3"	22.3"	24.3"	17.5"	0.0	-31.0"
TRAJ: 600 yds. zero	-1.5"	18.5"	32.6"	39.8"	38.2"	25.9"	0.0
VELOCITY (fps)	2600	2361	2134	1920	1721	1538	1375
ENERGY (ft.-lbs.)	3002	2474	2022	1637	1315	1050	840
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-17.2"	-39.1"	-72.7"	-121.2"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.0"	-29.5"	-60.9"	-107.0"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.7"	0.0	-16.2"	-44.1"	-86.9"
TRAJ: 400 yds. zero	-1.5"	9.8"	14.8"	12.1"	0.0	-23.9"	-62.7"
TRAJ: 500 yds. zero	-1.5"	14.5"	24.3"	26.5"	19.1"	0.0	-33.9"
TRAJ: 600 yds. zero	-1.5"	20.2"	35.7"	43.4"	41.8"	28.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2500	2266	2044	1836	1643	1468	1315
ENERGY (ft.-lbs.)	2775	2280	1856	1497	1199	957	768
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-18.9"	-42.9"	-79.9"	-133.1"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.0"	-32.3"	-66.6"	-117.2"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.3"	0.0	-17.7"	-48.3"	-95.2"
TRAJ: 400 yds. zero	-1.5"	10.7"	16.2"	13.3"	0.0	-26.2"	-68.7"
TRAJ: 500 yds. zero	-1.5"	16.0"	26.7"	29.0"	21.0"	0.0	-37.2"
TRAJ: 600 yds. zero	-1.5"	22.2"	39.1"	47.6"	45.8"	31.0"	0.0
VELOCITY (fps)	2400	2171	1955	1753	1567	1401	1258
ENERGY (ft.-lbs.)	2558	2093	1698	1365	1091	871	703
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-20.9"	-47.3"	-88.0"	-146.4"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.1"	-35.5"	-73.2"	-128.7"
TRAJ: 300 yds. zero	-1.5"	7.0"	8.1"	0.0	-19.4"	-53.1"	-104.6"
TRAJ: 400 yds. zero	-1.5"	11.8"	17.8"	14.6"	0.0	-28.8"	-75.4"
TRAJ: 500 yds. zero	-1.5"	17.6"	29.3"	31.8"	23.0"	0.0	-40.9"
TRAJ: 600 yds. zero	-1.5"	24.4"	42.9"	52.3"	50.3"	34.1"	0.0
VELOCITY (fps)	2300	2077	1867	1671	1493	1336	1205
ENERGY (ft.-lbs.)	2349	1915	1547	1240	990	793	645
TRAJ: 100 yds. zero	-1.5"	0.0	-6.6"	-23.2"	-52.3"	-97.1"	-161.5"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-13.3"	-39.1"	-80.6"	-141.8"
TRAJ: 300 yds. zero	-1.5"	7.7"	8.9"	0.0	-21.4"	-58.5"	-115.1"
TRAJ: 400 yds. zero	-1.5"	13.1"	19.6"	16.0"	0.0	-31.7"	-83.1"
TRAJ: 500 yds. zero	-1.5"	19.4"	32.3"	35.1"	25.4"	0.0	-45.0"
TRAJ: 600 yds. zero	-1.5"	26.9"	47.3"	57.6"	55.4"	37.5"	0.0
VELOCITY (fps)	2200	1982	1778	1590	1421	1275	1157
ENERGY (ft.-lbs.)	2149	1745	1404	1123	897	722	594
TRAJ: 100 yds. zero	-1.5"	0.0	-7.4"	-25.8"	-58.0"	-107.6"	-178.6"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-14.7"	-43.3"	-89.1"	-156.5"
TRAJ: 300 yds. zero	-1.5"	8.6"	9.8"	0.0	-23.6"	-64.6"	-127.0"
TRAJ: 400 yds. zero	-1.5"	14.5"	21.6"	17.7"	0.0	-35.0"	-91.6"
TRAJ: 500 yds. zero	-1.5"	21.5"	35.6"	38.7"	28.0"	0.0	-49.5"
TRAJ: 600 yds. zero	-1.5"	29.8"	52.2"	63.5"	61.1"	41.3"	0.0
VELOCITY (fps)	2100	1888	1691	1511	1352	1218	1113
ENERGY (ft.-lbs.)	1958	1583	1270	1014	812	658	550
TRAJ: 100 yds. zero	-1.5"	0.0	-8.3"	-28.8"	-64.6"	-119.5"	-197.9"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-16.3"	-48.0"	-98.8"	-173.1"
TRAJ: 300 yds. zero	-1.5"	9.6"	10.9"	0.0	-26.2"	-71.5"	-140.4"
TRAJ: 400 yds. zero	-1.5"	16.1"	24.0"	19.6"	0.0	-38.8"	-101.1"
TRAJ: 500 yds. zero	-1.5"	23.9"	39.5"	42.9"	31.0"	0.0	-54.6"
TRAJ: 600 yds. zero	-1.5"	33.0"	57.7"	70.2"	67.4"	45.5"	0.0
VELOCITY (fps)	2000	1795	1605	1434	1286	1165	1075
ENERGY (ft.-lbs.)	1776	1430	1144	914	734	603	513
TRAJ: 100 yds. zero	-1.5"	0.0	-9.3"	-32.2"	-72.1"	-133.0"	-219.6"
TRAJ: 200 yds. zero	-1.5"	4.7"	0.0	-18.2"	-53.4"	-109.7"	-191.6"
TRAJ: 300 yds. zero	-1.5"	10.7"	12.1"	0.0	-29.1"	-79.3"	-155.1"
TRAJ: 400 yds. zero	-1.5"	18.0"	26.7"	21.8"	0.0	-42.9"	-111.5"
TRAJ: 500 yds. zero	-1.5"	26.6"	43.9"	47.6"	34.4"	0.0	-59.9"
TRAJ: 600 yds. zero	-1.5"	36.6"	63.9"	77.6"	74.3"	50.0"	0.0
VELOCITY (fps)	1900	1702	1521	1360	1225	1118	1040
ENERGY (ft.-lbs.)	1603	1286	1027	822	666	555	480
TRAJ: 100 yds. zero	-1.5"	0.0	-10.5"	-36.2"	-80.7"	-148.4"	-243.7"
TRAJ: 200 yds. zero	-1.5"	5.3"	0.0	-20.4"	-59.6"	-122.0"	-212.0"
TRAJ: 300 yds. zero	-1.5"	12.1"	13.6"	0.0	-32.4"	-88.1"	-171.3"
TRAJ: 400 yds. zero	-1.5"	20.2"	29.8"	24.3"	0.0	-47.6"	-122.7"
TRAJ: 500 yds. zero	-1.5"	29.7"	48.8"	52.9"	38.1"	0.0	-65.6"
TRAJ: 600 yds. zero	-1.5"	40.6"	70.7"	85.7"	81.8"	54.7"	0.0
VELOCITY (fps)	1800	1610	1439	1290	1168	1077	1009
ENERGY (ft.-lbs.)	1439	1151	919	738	606	515	452
TRAJ: 100 yds. zero	-1.5"	0.0	-12.0"	-40.8"	-90.6"	-165.8"	-270.5"
TRAJ: 200 yds. zero	-1.5"	6.0"	0.0	-22.8"	-66.6"	-135.9"	-234.6"
TRAJ: 300 yds. zero	-1.5"	13.6"	15.2"	0.0	-36.2"	-97.8"	-188.9"
TRAJ: 400 yds. zero	-1.5"	22.6"	33.3"	27.1"	0.0	-52.6"	-134.6"
TRAJ: 500 yds. zero	-1.5"	33.2"	54.4"	58.7"	42.1"	0.0	-71.5"
TRAJ: 600 yds. zero	-1.5"	45.1"	78.2"	94.4"	89.7"	59.6"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1519	1359	1223	1117	1040	981
ENERGY (ft.-lbs.)	1283	1025	820	664	554	480	427
TRAJ: 100 yds. zero	-1.5"	0.0	-13.6"	-46.1"	-101.9"	-185.3"	-300.0"
TRAJ: 200 yds. zero	-1.5"	6.8"	0.0	-25.7"	-74.6"	-151.2"	-259.1"
TRAJ: 300 yds. zero	-1.5"	15.4"	17.1"	0.0	-40.4"	-108.4"	-207.7"
TRAJ: 400 yds. zero	-1.5"	25.5"	37.3"	30.3"	0.0	-57.9"	-147.1"
TRAJ: 500 yds. zero	-1.5"	37.1"	60.5"	65.0"	46.3"	0.0	-77.6"
TRAJ: 600 yds. zero	-1.5"	50.0"	86.4"	103.9"	98.1"	64.7"	0.0

338 CALIBER (.338" Dia.) 200 GRAIN FLAT POINT
SECTIONAL DENSITY: .250 BALLISTIC COEFFICIENT: .200

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2200	2003	1817	1644	1485	1343	1222
ENERGY (ft.-lbs.)	2149	1781	1466	1199	979	801	663
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.0"	-10.5"	-21.0"	-36.4"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-3.0"	-9.2"	-19.4"	-34.4"
TRAJ: 150 yds. zero	-1.5"	1.3"	2.0"	0.0	-5.2"	-14.4"	-28.4"
TRAJ: 200 yds. zero	-1.5"	2.6"	4.6"	3.9"	0.0	-7.9"	-20.6"
TRAJ: 250 yds. zero	-1.5"	4.2"	7.7"	8.6"	6.3"	0.0	-11.1"
TRAJ: 300 yds. zero	-1.5"	6.1"	11.5"	14.2"	13.7"	9.3"	0.0
VELOCITY (fps)	2100	1908	1728	1562	1411	1280	1171
ENERGY (ft.-lbs.)	1958	1617	1327	1083	884	727	608
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-4.7"	-12.1"	-23.9"	-41.0"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.4"	-10.3"	-21.6"	-38.3"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.2"	0.0	-5.8"	-16.0"	-31.6"
TRAJ: 200 yds. zero	-1.5"	3.0"	5.2"	4.4"	0.0	-8.7"	-22.8"
TRAJ: 250 yds. zero	-1.5"	4.8"	8.7"	9.6"	7.0"	0.0	-12.3"
TRAJ: 300 yds. zero	-1.5"	6.8"	12.8"	15.8"	15.2"	10.3"	0.0
VELOCITY (fps)	2000	1814	1641	1482	1341	1221	1124
ENERGY (ft.-lbs.)	1776	1461	1196	976	798	661	561
TRAJ: 50 yds. zero	-1.5"	0.0	-1.1"	-5.5"	-13.9"	-27.1"	-46.2"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.8"	-11.6"	-24.2"	-42.7"
TRAJ: 150 yds. zero	-1.5"	1.8"	2.5"	0.0	-6.5"	-17.9"	-35.1"
TRAJ: 200 yds. zero	-1.5"	3.5"	5.8"	4.9"	0.0	-9.7"	-25.3"
TRAJ: 250 yds. zero	-1.5"	5.4"	9.7"	10.7"	7.8"	0.0	-13.6"
TRAJ: 300 yds. zero	-1.5"	7.7"	14.2"	17.5"	16.9"	11.4"	0.0
VELOCITY (fps)	1900	1721	1555	1405	1274	1166	1083
ENERGY (ft.-lbs.)	1603	1315	1073	876	721	604	521
TRAJ: 50 yds. zero	-1.5"	0.0	-1.4"	-6.5"	-16.0"	-30.8"	-52.0"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.3"	-13.1"	-27.2"	-47.7"
TRAJ: 150 yds. zero	-1.5"	2.2"	2.9"	0.0	-7.3"	-20.0"	-39.0"
TRAJ: 200 yds. zero	-1.5"	4.0"	6.5"	5.5"	0.0	-10.8"	-28.1"
TRAJ: 250 yds. zero	-1.5"	6.2"	10.9"	12.0"	8.7"	0.0	-15.1"
TRAJ: 300 yds. zero	-1.5"	8.7"	15.9"	19.5"	18.7"	12.6"	0.0
VELOCITY (fps)	1800	1628	1470	1331	1212	1118	1046
ENERGY (ft.-lbs.)	1439	1177	960	786	652	555	486
TRAJ: 50 yds. zero	-1.5"	0.0	-1.8"	-7.6"	-18.4"	-35.0"	-58.6"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-4.9"	-14.8"	-30.5"	-53.2"
TRAJ: 150 yds. zero	-1.5"	2.5"	3.3"	0.0	-8.2"	-22.3"	-43.4"
TRAJ: 200 yds. zero	-1.5"	4.6"	7.4"	6.2"	0.0	-12.1"	-31.1"
TRAJ: 250 yds. zero	-1.5"	7.0"	12.2"	13.4"	9.7"	0.0	-16.6"
TRAJ: 300 yds. zero	-1.5"	9.8"	17.7"	21.7"	20.7"	13.8"	0.0
VELOCITY (fps)	1700	1536	1388	1260	1155	1075	1013
ENERGY (ft.-lbs.)	1283	1047	856	705	592	513	456
TRAJ: 50 yds. zero	-1.5"	0.0	-2.2"	-8.9"	-21.1"	-39.8"	-65.9"
TRAJ: 100 yds. zero	-1.5"	1.1"	0.0	-5.6"	-16.7"	-34.3"	-59.3"
TRAJ: 150 yds. zero	-1.5"	3.0"	3.7"	0.0	-9.2"	-25.0"	-48.1"
TRAJ: 200 yds. zero	-1.5"	5.3"	8.4"	6.9"	0.0	-13.4"	-34.3"
TRAJ: 250 yds. zero	-1.5"	8.0"	13.7"	15.0"	10.7"	0.0	-18.1"
TRAJ: 300 yds. zero	-1.5"	11.0"	19.8"	24.0"	22.8"	15.1"	0.0

338 CALIBER (.338" Dia.) 225 GRAIN SPIRE POINT
SECTIONAL DENSITY: .281 BALLISTIC COEFFICIENT: .397

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2762	2536	2321	2116	1922	1740
ENERGY (ft.-lbs.)	4496	3810	3212	2690	2236	1845	1512
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.6"	-26.5"	-49.2"	-81.4"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-7.0"	-20.4"	-41.6"	-72.2"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.6"	0.0	-11.1"	-30.0"	-58.3"
TRAJ: 400 yds. zero	-1.5"	6.6"	10.2"	8.3"	0.0	-16.1"	-41.7"
TRAJ: 500 yds. zero	-1.5"	9.8"	16.6"	18.0"	12.9"	0.0	-22.3"
TRAJ: 600 yds. zero	-1.5"	13.6"	24.1"	29.2"	27.8"	18.6"	0.0
VELOCITY (fps)	2900	2667	2445	2235	2034	1845	1668
ENERGY (ft.-lbs.)	4201	3553	2987	2495	2068	1701	1390
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.6"	-28.8"	-53.4"	-88.3"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.5"	-22.0"	-45.0"	-78.1"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.0"	0.0	-12.0"	-32.4"	-63.1"
TRAJ: 400 yds. zero	-1.5"	7.2"	11.0"	9.0"	0.0	-17.4"	-45.1"
TRAJ: 500 yds. zero	-1.5"	10.7"	18.0"	19.4"	13.9"	0.0	-24.2"
TRAJ: 600 yds. zero	-1.5"	14.7"	26.0"	31.5"	30.1"	20.2"	0.0
VELOCITY (fps)	2800	2572	2355	2149	1953	1769	1598
ENERGY (ft.-lbs.)	3916	3304	2771	2307	1905	1563	1275
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-13.8"	-31.4"	-58.2"	-96.1"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.2"	-23.9"	-48.7"	-84.8"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.4"	0.0	-13.0"	-35.1"	-68.4"
TRAJ: 400 yds. zero	-1.5"	7.9"	11.9"	9.7"	0.0	-18.9"	-48.9"
TRAJ: 500 yds. zero	-1.5"	11.6"	19.5"	21.1"	15.1"	0.0	-26.3"
TRAJ: 600 yds. zero	-1.5"	16.0"	28.3"	34.2"	32.6"	21.9"	0.0
VELOCITY (fps)	2700	2477	2265	2063	1872	1693	1529
ENERGY (ft.-lbs.)	3641	3065	2562	2126	1751	1432	1167
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.2"	-34.3"	-63.4"	-104.8"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-8.9"	-26.0"	-53.0"	-92.2"
TRAJ: 300 yds. zero	-1.5"	5.1"	5.9"	0.0	-14.1"	-38.2"	-74.4"
TRAJ: 400 yds. zero	-1.5"	8.6"	13.0"	10.6"	0.0	-20.5"	-53.3"
TRAJ: 500 yds. zero	-1.5"	12.7"	21.2"	22.9"	16.4"	0.0	-28.6"
TRAJ: 600 yds. zero	-1.5"	17.5"	30.7"	37.2"	35.5"	23.9"	0.0
VELOCITY (fps)	2600	2382	2174	1977	1791	1619	1461
ENERGY (ft.-lbs.)	3377	2834	2361	1953	1603	1309	1066
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-16.7"	-37.6"	-69.4"	-114.6"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.7"	-28.3"	-57.8"	-100.6"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.5"	0.0	-15.4"	-41.6"	-81.3"
TRAJ: 400 yds. zero	-1.5"	9.4"	14.2"	11.5"	0.0	-22.4"	-58.2"
TRAJ: 500 yds. zero	-1.5"	13.9"	23.1"	25.0"	17.9"	0.0	-31.3"
TRAJ: 600 yds. zero	-1.5"	19.1"	33.5"	40.6"	38.8"	26.1"	0.0
VELOCITY (fps)	2500	2287	2084	1892	1712	1545	1395
ENERGY (ft.-lbs.)	3122	2612	2169	1787	1463	1193	973
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-18.4"	-41.3"	-76.2"	-125.7"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.6"	-31.0"	-63.3"	-110.2"
TRAJ: 300 yds. zero	-1.5"	6.1"	7.1"	0.0	-16.8"	-45.6"	-89.0"
TRAJ: 400 yds. zero	-1.5"	10.3"	15.5"	12.6"	0.0	-24.5"	-63.7"
TRAJ: 500 yds. zero	-1.5"	15.2"	25.3"	27.3"	19.6"	0.0	-34.3"
TRAJ: 600 yds. zero	-1.5"	20.9"	36.7"	44.5"	42.5"	28.6"	0.0
VELOCITY (fps)	2400	2191	1993	1807	1633	1474	1333
ENERGY (ft.-lbs.)	2877	2399	1985	1631	1332	1085	887
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-20.3"	-45.5"	-83.8"	-138.3"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.7"	-34.0"	-69.4"	-121.0"
TRAJ: 300 yds. zero	-1.5"	6.8"	7.8"	0.0	-18.5"	-50.0"	-97.7"
TRAJ: 400 yds. zero	-1.5"	11.4"	17.0"	13.8"	0.0	-26.9"	-70.0"
TRAJ: 500 yds. zero	-1.5"	16.8"	27.8"	30.0"	21.6"	0.0	-37.7"
TRAJ: 600 yds. zero	-1.5"	23.0"	40.3"	48.8"	46.7"	31.4"	0.0
VELOCITY (fps)	2300	2096	1904	1723	1555	1404	1273
ENERGY (ft.-lbs.)	2642	2195	1810	1482	1209	985	809
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-22.5"	-50.3"	-92.6"	-152.5"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-12.8"	-37.4"	-76.5"	-133.2"
TRAJ: 300 yds. zero	-1.5"	7.5"	8.6"	0.0	-20.3"	-55.1"	-107.6"
TRAJ: 400 yds. zero	-1.5"	12.6"	18.7"	15.2"	0.0	-29.7"	-77.1"
TRAJ: 500 yds. zero	-1.5"	18.5"	30.6"	33.1"	23.7"	0.0	-41.5"
TRAJ: 600 yds. zero	-1.5"	25.4"	44.4"	53.8"	51.4"	34.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2200	2002	1814	1640	1480	1338	1217
ENERGY (ft.-lbs.)	2418	2001	1644	1343	1094	894	740
TRAJ: 100 yds. zero	-1.5"	0.0	-7.2"	-25.0"	-55.8"	-102.5"	-168.8"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-14.2"	-41.4"	-84.5"	-147.1"
TRAJ: 300 yds. zero	-1.5"	8.3"	9.5"	0.0	-22.4"	-60.8"	-118.8"
TRAJ: 400 yds. zero	-1.5"	13.9"	20.7"	16.8"	0.0	-32.8"	-85.1"
TRAJ: 500 yds. zero	-1.5"	20.5"	33.8"	36.5"	26.2"	0.0	-45.8"
TRAJ: 600 yds. zero	-1.5"	28.1"	49.0"	59.4"	56.7"	38.1"	0.0
VELOCITY (fps)	2100	1907	1726	1558	1407	1275	1166
ENERGY (ft.-lbs.)	2203	1817	1488	1213	989	812	680
TRAJ: 100 yds. zero	-1.5"	0.0	-8.1"	-27.9"	-62.1"	-113.9"	-187.2"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-15.8"	-45.9"	-93.6"	-162.9"
TRAJ: 300 yds. zero	-1.5"	9.3"	10.5"	0.0	-24.9"	-67.4"	-131.4"
TRAJ: 400 yds. zero	-1.5"	15.5"	22.9"	18.7"	0.0	-36.3"	-94.1"
TRAJ: 500 yds. zero	-1.5"	22.8"	37.5"	40.4"	29.0"	0.0	-50.5"
TRAJ: 600 yds. zero	-1.5"	31.2"	54.3"	65.7"	62.7"	42.1"	0.0
VELOCITY (fps)	2000	1813	1638	1479	1337	1216	1120
ENERGY (ft.-lbs.)	1998	1642	1341	1092	893	739	627
TRAJ: 100 yds. zero	-1.5"	0.0	-9.1"	-31.2"	-69.3"	-126.9"	-208.0"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-17.5"	-51.0"	-104.1"	-180.7"
TRAJ: 300 yds. zero	-1.5"	10.4"	11.7"	0.0	-27.7"	-74.8"	-145.6"
TRAJ: 400 yds. zero	-1.5"	17.3"	25.5"	20.7"	0.0	-40.3"	-104.1"
TRAJ: 500 yds. zero	-1.5"	25.4"	41.6"	44.9"	32.2"	0.0	-55.8"
TRAJ: 600 yds. zero	-1.5"	34.7"	60.2"	72.8"	69.4"	46.5"	0.0
VELOCITY (fps)	1900	1719	1552	1402	1271	1163	1080
ENERGY (ft.-lbs.)	1803	1477	1204	981	806	675	582
TRAJ: 100 yds. zero	-1.5"	0.0	-10.3"	-35.1"	-77.6"	-141.7"	-231.5"
TRAJ: 200 yds. zero	-1.5"	5.1"	0.0	-19.6"	-57.0"	-116.0"	-200.6"
TRAJ: 300 yds. zero	-1.5"	11.7"	13.1"	0.0	-30.8"	-83.2"	-161.4"
TRAJ: 400 yds. zero	-1.5"	19.4"	28.5"	23.1"	0.0	-44.7"	-115.1"
TRAJ: 500 yds. zero	-1.5"	28.3"	46.4"	49.9"	35.8"	0.0	-61.5"
TRAJ: 600 yds. zero	-1.5"	38.6"	66.9"	80.7"	76.8"	51.2"	0.0
VELOCITY (fps)	1800	1627	1468	1328	1209	1115	1044
ENERGY (ft.-lbs.)	1618	1322	1077	881	730	621	544
TRAJ: 100 yds. zero	-1.5"	0.0	-11.7"	-39.5"	-87.2"	-158.6"	-257.8"
TRAJ: 200 yds. zero	-1.5"	5.8"	0.0	-22.0"	-63.8"	-129.4"	-222.8"
TRAJ: 300 yds. zero	-1.5"	13.2"	14.7"	0.0	-34.5"	-92.7"	-178.8"
TRAJ: 400 yds. zero	-1.5"	21.8"	31.9"	25.8"	0.0	-49.7"	-127.1"
TRAJ: 500 yds. zero	-1.5"	31.7"	51.8"	55.6"	39.7"	0.0	-67.5"
TRAJ: 600 yds. zero	-1.5"	43.0"	74.3"	89.4"	84.7"	56.2"	0.0
VELOCITY (fps)	1700	1535	1386	1257	1152	1072	1011
ENERGY (ft.-lbs.)	1444	1177	960	790	663	574	510
TRAJ: 100 yds. zero	-1.5"	0.0	-13.3"	-44.7"	-98.2"	-177.8"	-287.1"
TRAJ: 200 yds. zero	-1.5"	6.6"	0.0	-24.8"	-71.6"	-144.5"	-247.2"
TRAJ: 300 yds. zero	-1.5"	14.9"	16.5"	0.0	-38.6"	-103.2"	-197.6"
TRAJ: 400 yds. zero	-1.5"	24.5"	35.8"	28.9"	0.0	-55.0"	-139.8"
TRAJ: 500 yds. zero	-1.5"	35.6"	57.8"	61.9"	44.0"	0.0	-73.8"
TRAJ: 600 yds. zero	-1.5"	47.8"	82.4"	98.8"	93.2"	61.5"	0.0
VELOCITY (fps)	1600	1444	1307	1192	1102	1034	981
ENERGY (ft.-lbs.)	1279	1042	853	710	606	534	481
TRAJ: 100 yds. zero	-1.5"	0.0	-15.2"	-50.8"	-110.8"	-199.3"	-319.5"
TRAJ: 200 yds. zero	-1.5"	7.6"	0.0	-28.0"	-80.4"	-161.3"	-273.9"
TRAJ: 300 yds. zero	-1.5"	16.9"	18.7"	0.0	-43.1"	-114.7"	-217.9"
TRAJ: 400 yds. zero	-1.5"	27.7"	40.2"	32.3"	0.0	-60.8"	-153.2"
TRAJ: 500 yds. zero	-1.5"	39.9"	64.5"	68.8"	48.6"	0.0	-80.3"
TRAJ: 600 yds. zero	-1.5"	53.2"	91.3"	108.9"	102.1"	66.9"	0.0

338 CALIBER (.338" Dia.) 250 GRAIN ROUND NOSE
SECTIONAL DENSITY: .313 BALLISTIC COEFFICIENT: .291

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2585	2291	2016	1763	1534	1336
ENERGY (ft.-lbs.)	4668	3709	2913	2257	1725	1306	991
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-14.1"	-33.1"	-63.4"	-108.6"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.5"	-25.6"	-54.1"	-97.4"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.7"	0.0	-14.3"	-39.9"	-80.4"
TRAJ: 400 yds. zero	-1.5"	8.3"	12.8"	10.7"	0.0	-22.0"	-58.9"
TRAJ: 500 yds. zero	-1.5"	12.7"	21.6"	23.9"	17.6"	0.0	-32.5"
TRAJ: 600 yds. zero	-1.5"	18.1"	32.5"	40.2"	39.3"	27.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2800	2492	2204	1936	1689	1469	1282
ENERGY (ft.-lbs.)	4351	3446	2696	2079	1583	1198	913
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-15.5"	-36.1"	-69.1"	-118.3"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.3"	-27.9"	-58.8"	-106.0"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.2"	0.0	-15.5"	-43.3"	-87.4"
TRAJ: 400 yds. zero	-1.5"	9.0"	13.9"	11.6"	0.0	-23.9"	-64.2"
TRAJ: 500 yds. zero	-1.5"	13.8"	23.5"	26.0"	19.1"	0.0	-35.4"
TRAJ: 600 yds. zero	-1.5"	19.7"	35.3"	43.7"	42.8"	29.5"	0.0
VELOCITY (fps)	2700	2398	2117	1855	1616	1406	1232
ENERGY (ft.-lbs.)	4046	3193	2487	1910	1450	1097	842
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-17.0"	-39.5"	-75.5"	-129.3"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.1"	-30.4"	-64.1"	-115.6"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.7"	0.0	-16.9"	-47.2"	-95.4"
TRAJ: 400 yds. zero	-1.5"	9.9"	15.2"	12.7"	0.0	-26.1"	-70.0"
TRAJ: 500 yds. zero	-1.5"	15.1"	25.6"	28.3"	20.9"	0.0	-38.7"
TRAJ: 600 yds. zero	-1.5"	21.5"	38.5"	47.7"	46.7"	32.2"	0.0
VELOCITY (fps)	2600	2305	2030	1775	1545	1345	1185
ENERGY (ft.-lbs.)	3752	2949	2286	1748	1324	1004	779
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-18.6"	-43.3"	-82.7"	-141.6"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-11.0"	-33.2"	-70.0"	-126.3"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.4"	0.0	-18.5"	-51.7"	-104.3"
TRAJ: 400 yds. zero	-1.5"	10.8"	16.6"	13.9"	0.0	-28.6"	-76.6"
TRAJ: 500 yds. zero	-1.5"	16.5"	28.0"	31.0"	22.9"	0.0	-42.3"
TRAJ: 600 yds. zero	-1.5"	23.6"	42.1"	52.1"	51.0"	35.2"	0.0
VELOCITY (fps)	2500	2212	1943	1695	1475	1287	1141
ENERGY (ft.-lbs.)	3469	2714	2095	1595	1207	919	723
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-20.6"	-47.7"	-90.9"	-155.4"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-12.1"	-36.4"	-76.8"	-138.4"
TRAJ: 300 yds. zero	-1.5"	6.9"	8.1"	0.0	-20.3"	-56.6"	-114.2"
TRAJ: 400 yds. zero	-1.5"	11.9"	18.2"	15.2"	0.0	-31.3"	-83.9"
TRAJ: 500 yds. zero	-1.5"	18.2"	30.7"	34.0"	25.1"	0.0	-46.3"
TRAJ: 600 yds. zero	-1.5"	25.9"	46.1"	57.1"	55.9"	38.5"	0.0
VELOCITY (fps)	2400	2118	1856	1617	1407	1232	1103
ENERGY (ft.-lbs.)	3197	2490	1912	1452	1098	843	675
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-22.7"	-52.6"	-100.2"	-170.8"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-13.3"	-40.0"	-84.4"	-151.9"
TRAJ: 300 yds. zero	-1.5"	7.6"	8.9"	0.0	-22.3"	-62.3"	-125.3"
TRAJ: 400 yds. zero	-1.5"	13.1"	20.0"	16.7"	0.0	-34.4"	-91.9"
TRAJ: 500 yds. zero	-1.5"	20.0"	33.8"	37.4"	27.5"	0.0	-50.6"
TRAJ: 600 yds. zero	-1.5"	28.5"	50.6"	62.7"	61.3"	42.2"	0.0
VELOCITY (fps)	2300	2025	1771	1541	1342	1182	1068
ENERGY (ft.-lbs.)	2936	2276	1740	1318	999	776	633
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-25.2"	-58.2"	-110.6"	-188.0"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-14.7"	-44.1"	-93.0"	-166.9"
TRAJ: 300 yds. zero	-1.5"	8.4"	9.8"	0.0	-24.5"	-68.6"	-137.5"
TRAJ: 400 yds. zero	-1.5"	14.5"	22.1"	18.4"	0.0	-37.9"	-100.7"
TRAJ: 500 yds. zero	-1.5"	22.1"	37.2"	41.1"	30.3"	0.0	-55.2"
TRAJ: 600 yds. zero	-1.5"	31.3"	55.6"	68.8"	67.1"	46.0"	0.0
VELOCITY (fps)	2200	1932	1686	1466	1280	1136	1037
ENERGY (ft.-lbs.)	2686	2072	1577	1193	909	717	597
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-28.1"	-64.5"	-122.4"	-207.0"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-16.3"	-48.8"	-102.7"	-183.4"
TRAJ: 300 yds. zero	-1.5"	9.4"	10.8"	0.0	-27.1"	-75.6"	-150.9"
TRAJ: 400 yds. zero	-1.5"	16.1"	24.4"	20.3"	0.0	-41.7"	-110.2"
TRAJ: 500 yds. zero	-1.5"	24.5"	41.1"	45.4"	33.4"	0.0	-60.1"
TRAJ: 600 yds. zero	-1.5"	34.5"	61.1"	75.4"	73.4"	50.1"	0.0
VELOCITY (fps)	2100	1840	1602	1394	1222	1096	1009
ENERGY (ft.-lbs.)	2448	1878	1425	1078	829	666	565
TRAJ: 100 yds. zero	-1.5"	0.0	-8.8"	-31.3"	-71.8"	-135.7"	-227.9"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-18.1"	-54.1"	-113.6"	-201.4"
TRAJ: 300 yds. zero	-1.5"	10.4"	12.0"	0.0	-30.0"	-83.5"	-165.3"
TRAJ: 400 yds. zero	-1.5"	17.9"	27.1"	22.5"	0.0	-45.9"	-120.2"
TRAJ: 500 yds. zero	-1.5"	27.1"	45.4"	50.1"	36.7"	0.0	-65.1"
TRAJ: 600 yds. zero	-1.5"	38.0"	67.1"	82.6"	80.1"	54.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2000	1748	1521	1325	1169	1059	983
ENERGY (ft.-lbs.)	2220	1695	1283	974	759	623	536
TRAJ: 100 yds. zero	-1.5"	0.0	-10.0"	-35.0"	-80.0"	-150.4"	-250.9"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-20.1"	-60.1"	-125.6"	-221.0"
TRAJ: 300 yds. zero	-1.5"	11.7"	13.4"	0.0	-33.3"	-92.0"	-180.8"
TRAJ: 400 yds. zero	-1.5"	20.0"	30.1"	25.0"	0.0	-50.4"	-130.8"
TRAJ: 500 yds. zero	-1.5"	30.1"	50.2"	55.2"	40.3"	0.0	-70.4"
TRAJ: 600 yds. zero	-1.5"	41.8"	73.7"	90.4"	87.2"	58.6"	0.0
VELOCITY (fps)	1900	1657	1441	1260	1122	1027	959
ENERGY (ft.-lbs.)	2004	1524	1152	881	699	585	510
TRAJ: 100 yds. zero	-1.5"	0.0	-11.2"	-39.3"	-89.4"	-166.9"	-275.9"
TRAJ: 200 yds. zero	-1.5"	5.6"	0.0	-22.5"	-66.9"	-138.8"	-242.2"
TRAJ: 300 yds. zero	-1.5"	13.1"	15.0"	0.0	-37.0"	-101.3"	-197.3"
TRAJ: 400 yds. zero	-1.5"	22.4"	33.5"	27.7"	0.0	-55.1"	-141.8"
TRAJ: 500 yds. zero	-1.5"	33.4"	55.5"	60.8"	44.1"	0.0	-75.7"
TRAJ: 600 yds. zero	-1.5"	46.0"	80.7"	98.6"	94.5"	63.1"	0.0
VELOCITY (fps)	1800	1567	1364	1199	1080	998	936
ENERGY (ft.-lbs.)	1798	1363	1032	798	647	552	486
TRAJ: 100 yds. zero	-1.5"	0.0	-12.7"	-44.3"	-100.0"	-185.0"	-303.2"
TRAJ: 200 yds. zero	-1.5"	6.4"	0.0	-25.2"	-74.5"	-153.1"	-265.0"
TRAJ: 300 yds. zero	-1.5"	14.8"	16.8"	0.0	-41.0"	-111.2"	-214.7"
TRAJ: 400 yds. zero	-1.5"	25.0"	37.3"	30.7"	0.0	-60.0"	-153.3"
TRAJ: 500 yds. zero	-1.5"	37.0"	61.3"	66.7"	48.0"	0.0	-81.3"
TRAJ: 600 yds. zero	-1.5"	50.5"	88.3"	107.3"	102.2"	67.7"	0.0
VELOCITY (fps)	1700	1479	1290	1144	1042	970	914
ENERGY (ft.-lbs.)	1604	1213	924	726	603	522	464
TRAJ: 100 yds. zero	-1.5"	0.0	-14.5"	-49.9"	-111.8"	-204.8"	-332.9"
TRAJ: 200 yds. zero	-1.5"	7.2"	0.0	-28.2"	-82.8"	-168.6"	-289.4"
TRAJ: 300 yds. zero	-1.5"	16.6"	18.8"	0.0	-45.2"	-121.6"	-233.0"
TRAJ: 400 yds. zero	-1.5"	28.0"	41.4"	33.9"	0.0	-65.1"	-165.2"
TRAJ: 500 yds. zero	-1.5"	41.0"	67.4"	73.0"	52.0"	0.0	-87.1"
TRAJ: 600 yds. zero	-1.5"	55.5"	96.5"	116.5"	110.1"	72.6"	0.0
VELOCITY (fps)	1600	1392	1221	1095	1008	944	893
ENERGY (ft.-lbs.)	1421	1075	827	665	564	495	442
TRAJ: 100 yds. zero	-1.5"	0.0	-16.5"	-56.4"	-124.9"	-226.6"	-365.1"
TRAJ: 200 yds. zero	-1.5"	8.3"	0.0	-31.6"	-91.9"	-185.3"	-315.6"
TRAJ: 300 yds. zero	-1.5"	18.8"	21.1"	0.0	-49.8"	-132.6"	-252.4"
TRAJ: 400 yds. zero	-1.5"	31.2"	46.0"	37.3"	0.0	-70.4"	-177.7"
TRAJ: 500 yds. zero	-1.5"	45.3"	74.1"	79.6"	56.3"	0.0	-93.2"
TRAJ: 600 yds. zero	-1.5"	60.9"	105.2"	126.2"	118.5"	77.7"	0.0
VELOCITY (fps)	1500	1308	1157	1051	977	919	871
ENERGY (ft.-lbs.)	1249	949	743	613	529	469	421
TRAJ: 100 yds. zero	-1.5"	0.0	-18.9"	-63.7"	-139.4"	-250.3"	-400.3"
TRAJ: 200 yds. zero	-1.5"	9.4"	0.0	-35.3"	-101.6"	-203.1"	-343.6"
TRAJ: 300 yds. zero	-1.5"	21.2"	23.6"	0.0	-54.5"	-144.2"	-272.9"
TRAJ: 400 yds. zero	-1.5"	34.9"	50.8"	40.9"	0.0	-76.0"	-191.1"
TRAJ: 500 yds. zero	-1.5"	50.1"	81.2"	86.5"	60.8"	0.0	-99.9"
TRAJ: 600 yds. zero	-1.5"	66.7"	114.5"	136.5"	127.4"	83.3"	0.0

338 CALIBER (.338" Dia.) 250 GRAIN SPIRE POINT
SECTIONAL DENSITY: .313 BALLISTIC COEFFICIENT: .431

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2685	2480	2284	2097	1918	1750
ENERGY (ft.-lbs.)	4668	4001	3413	2895	2440	2043	1701
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.3"	-28.0"	-51.6"	-84.7"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.3"	-21.3"	-43.3"	-74.7"
TRAJ: 300 yds. zero	-1.5"	4.1"	4.9"	0.0	-11.6"	-31.1"	-60.0"
TRAJ: 400 yds. zero	-1.5"	7.0"	10.7"	8.7"	0.0	-16.6"	-42.7"
TRAJ: 500 yds. zero	-1.5"	10.3"	17.3"	18.6"	13.3"	0.0	-22.8"
TRAJ: 600 yds. zero	-1.5"	14.1"	24.9"	30.0"	28.4"	19.0"	0.0
VELOCITY (fps)	2800	2590	2389	2197	2014	1840	1677
ENERGY (ft.-lbs.)	4351	3722	3167	2678	2251	1879	1561
TRAJ: 100 yds. zero	-1.5"	0.0	-3.7"	-13.5"	-30.5"	-56.1"	-92.0"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.9"	-23.1"	-46.9"	-80.9"
TRAJ: 300 yds. zero	-1.5"	4.5"	5.3"	0.0	-12.5"	-33.6"	-65.0"
TRAJ: 400 yds. zero	-1.5"	7.6"	11.6"	9.4"	0.0	-18.0"	-46.3"
TRAJ: 500 yds. zero	-1.5"	11.2"	18.8"	20.2"	14.4"	0.0	-24.7"
TRAJ: 600 yds. zero	-1.5"	15.3"	27.0"	32.5"	30.8"	20.6"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2700	2494	2298	2110	1931	1762	1605
ENERGY (ft.-lbs.)	4046	3453	2930	2470	2070	1724	1429
TRAJ: 100 yds. zero	-1.5"	0.0	-4.1"	-14.8"	-33.3"	-61.2"	-100.3"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.6"	-25.1"	-50.9"	-88.0"
TRAJ: 300 yds. zero	-1.5"	4.9"	5.8"	0.0	-13.6"	-36.5"	-70.7"
TRAJ: 400 yds. zero	-1.5"	8.3"	12.6"	10.2"	0.0	-19.5"	-50.3"
TRAJ: 500 yds. zero	-1.5"	12.2"	20.4"	21.9"	15.6"	0.0	-26.9"
TRAJ: 600 yds. zero	-1.5"	16.7"	29.3"	35.4"	33.6"	22.4"	0.0
VELOCITY (fps)	2600	2399	2206	2023	1849	1685	1534
ENERGY (ft.-lbs.)	3752	3193	2702	2271	1897	1576	1305
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-16.3"	-36.5"	-66.9"	-109.7"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.4"	-27.4"	-55.5"	-96.0"
TRAJ: 300 yds. zero	-1.5"	5.4"	6.3"	0.0	-14.8"	-39.8"	-77.1"
TRAJ: 400 yds. zero	-1.5"	9.1"	13.7"	11.1"	0.0	-21.3"	-54.9"
TRAJ: 500 yds. zero	-1.5"	13.4"	22.2"	23.9"	17.0"	0.0	-29.3"
TRAJ: 600 yds. zero	-1.5"	18.3"	32.0"	38.6"	36.6"	24.5"	0.0
VELOCITY (fps)	2500	2303	2115	1936	1767	1609	1464
ENERGY (ft.-lbs.)	3469	2944	2483	2080	1733	1437	1190
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-17.9"	-40.1"	-73.4"	-120.2"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.3"	-29.9"	-60.7"	-105.0"
TRAJ: 300 yds. zero	-1.5"	6.0"	6.9"	0.0	-16.2"	-43.5"	-84.4"
TRAJ: 400 yds. zero	-1.5"	10.0"	15.0"	12.1"	0.0	-23.3"	-60.1"
TRAJ: 500 yds. zero	-1.5"	14.7"	24.3"	26.1"	18.6"	0.0	-32.1"
TRAJ: 600 yds. zero	-1.5"	20.0"	35.0"	42.2"	40.1"	26.8"	0.0
VELOCITY (fps)	2400	2208	2024	1850	1686	1535	1397
ENERGY (ft.-lbs.)	3197	2705	2274	1899	1578	1307	1083
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-19.8"	-44.1"	-80.8"	-132.2"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.3"	-32.8"	-66.6"	-115.3"
TRAJ: 300 yds. zero	-1.5"	6.6"	7.6"	0.0	-17.7"	-47.8"	-92.6"
TRAJ: 400 yds. zero	-1.5"	11.0"	16.4"	13.3"	0.0	-25.6"	-66.0"
TRAJ: 500 yds. zero	-1.5"	16.2"	26.7"	28.7"	20.5"	0.0	-35.3"
TRAJ: 600 yds. zero	-1.5"	22.0"	38.4"	46.3"	44.0"	29.4"	0.0
VELOCITY (fps)	2300	2112	1933	1764	1607	1462	1333
ENERGY (ft.-lbs.)	2936	2476	2074	1728	1433	1186	986
TRAJ: 100 yds. zero	-1.5"	0.0	-6.3"	-21.9"	-48.8"	-89.1"	-145.8"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-12.5"	-36.2"	-73.4"	-126.9"
TRAJ: 300 yds. zero	-1.5"	7.3"	8.3"	0.0	-19.5"	-52.6"	-101.9"
TRAJ: 400 yds. zero	-1.5"	12.2"	18.1"	14.6"	0.0	-28.2"	-72.7"
TRAJ: 500 yds. zero	-1.5"	17.8"	29.3"	31.5"	22.5"	0.0	-38.9"
TRAJ: 600 yds. zero	-1.5"	24.3"	42.3"	51.0"	48.4"	32.4"	0.0
VELOCITY (fps)	2200	2017	1843	1680	1529	1392	1272
ENERGY (ft.-lbs.)	2686	2257	1885	1566	1297	1075	897
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-24.4"	-54.1"	-98.7"	-161.3"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.8"	-39.9"	-81.0"	-140.1"
TRAJ: 300 yds. zero	-1.5"	8.1"	9.2"	0.0	-21.6"	-58.0"	-112.6"
TRAJ: 400 yds. zero	-1.5"	13.5"	20.0"	16.2"	0.0	-31.1"	-80.2"
TRAJ: 500 yds. zero	-1.5"	19.7"	32.4"	34.8"	24.9"	0.0	-42.9"
TRAJ: 600 yds. zero	-1.5"	26.9"	46.7"	56.3"	53.5"	35.8"	0.0
VELOCITY (fps)	2100	1922	1754	1597	1453	1325	1215
ENERGY (ft.-lbs.)	2448	2050	1707	1415	1172	974	819
TRAJ: 100 yds. zero	-1.5"	0.0	-7.9"	-27.2"	-60.2"	-109.6"	-179.0"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-15.3"	-44.3"	-89.8"	-155.2"
TRAJ: 300 yds. zero	-1.5"	9.1"	10.2"	0.0	-23.9"	-64.3"	-124.6"
TRAJ: 400 yds. zero	-1.5"	15.0"	22.1"	17.9"	0.0	-34.4"	-88.8"
TRAJ: 500 yds. zero	-1.5"	21.9"	35.9"	38.6"	27.6"	0.0	-47.5"
TRAJ: 600 yds. zero	-1.5"	29.8"	51.7"	62.3"	59.2"	39.6"	0.0
VELOCITY (fps)	2000	1827	1665	1515	1380	1261	1163
ENERGY (ft.-lbs.)	2220	1853	1539	1274	1056	883	750
TRAJ: 100 yds. zero	-1.5"	0.0	-8.9"	-30.4"	-67.1"	-122.2"	-199.1"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-17.0"	-49.3"	-99.8"	-172.3"
TRAJ: 300 yds. zero	-1.5"	10.1"	11.4"	0.0	-26.5"	-71.4"	-138.2"
TRAJ: 400 yds. zero	-1.5"	16.8"	24.6"	19.9"	0.0	-38.2"	-98.4"
TRAJ: 500 yds. zero	-1.5"	24.4"	39.9"	42.9"	30.6"	0.0	-52.5"
TRAJ: 600 yds. zero	-1.5"	33.2"	57.4"	69.1"	65.6"	43.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1900	1733	1578	1436	1310	1202	1116
ENERGY (ft.-lbs.)	2004	1667	1382	1144	952	802	691
TRAJ: 100 yds. zero	-1.5"	0.0	-10.1"	-34.2"	-75.2"	-136.6"	-222.0"
TRAJ: 200 yds. zero	-1.5"	5.1"	0.0	-19.1"	-55.0"	-111.3"	-191.7"
TRAJ: 300 yds. zero	-1.5"	11.4"	12.7"	0.0	-29.6"	-79.6"	-153.6"
TRAJ: 400 yds. zero	-1.5"	18.8"	27.5"	22.2"	0.0	-42.6"	-109.2"
TRAJ: 500 yds. zero	-1.5"	27.3"	44.5"	47.7"	34.0"	0.0	-58.1"
TRAJ: 600 yds. zero	-1.5"	37.0"	63.9"	76.8"	72.8"	48.4"	0.0
VELOCITY (fps)	1800	1640	1492	1359	1244	1149	1075
ENERGY (ft.-lbs.)	1798	1492	1236	1025	859	732	641
TRAJ: 100 yds. zero	-1.5"	0.0	-11.5"	-38.6"	-84.6"	-153.1"	-247.9"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-21.4"	-61.6"	-124.4"	-213.5"
TRAJ: 300 yds. zero	-1.5"	12.9"	14.3"	0.0	-33.1"	-88.8"	-170.7"
TRAJ: 400 yds. zero	-1.5"	21.1"	30.8"	24.8"	0.0	-47.4"	-121.0"
TRAJ: 500 yds. zero	-1.5"	30.6"	49.8"	53.3"	37.9"	0.0	-64.2"
TRAJ: 600 yds. zero	-1.5"	41.3"	71.2"	85.4"	80.7"	53.5"	0.0
VELOCITY (fps)	1700	1547	1408	1286	1183	1101	1038
ENERGY (ft.-lbs.)	1604	1329	1101	918	776	673	598
TRAJ: 100 yds. zero	-1.5"	0.0	-13.1"	-43.7"	-95.3"	-171.9"	-276.8"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-24.1"	-69.2"	-139.2"	-237.7"
TRAJ: 300 yds. zero	-1.5"	14.6"	16.1"	0.0	-37.1"	-99.1"	-189.5"
TRAJ: 400 yds. zero	-1.5"	23.8"	34.6"	27.8"	0.0	-52.7"	-133.8"
TRAJ: 500 yds. zero	-1.5"	34.4"	55.7"	59.5"	42.2"	0.0	-70.6"
TRAJ: 600 yds. zero	-1.5"	46.1"	79.2"	94.7"	89.2"	58.8"	0.0
VELOCITY (fps)	1600	1456	1327	1217	1128	1058	1004
ENERGY (ft.-lbs.)	1421	1176	978	822	706	622	560
TRAJ: 100 yds. zero	-1.5"	0.0	-14.9"	-49.6"	-107.8"	-193.2"	-309.1"
TRAJ: 200 yds. zero	-1.5"	7.5"	0.0	-27.2"	-77.9"	-155.9"	-264.3"
TRAJ: 300 yds. zero	-1.5"	16.5"	18.2"	0.0	-41.6"	-110.5"	-209.9"
TRAJ: 400 yds. zero	-1.5"	27.0"	39.0"	31.2"	0.0	-58.4"	-147.4"
TRAJ: 500 yds. zero	-1.5"	38.6"	62.3"	66.3"	46.7"	0.0	-77.3"
TRAJ: 600 yds. zero	-1.5"	51.5"	88.1"	104.9"	98.3"	64.4"	0.0
VELOCITY (fps)	1500	1366	1250	1154	1078	1020	973
ENERGY (ft.-lbs.)	1249	1036	867	739	645	578	526
TRAJ: 100 yds. zero	-1.5"	0.0	-17.2"	-56.6"	-122.1"	-217.1"	-344.9"
TRAJ: 200 yds. zero	-1.5"	8.6"	0.0	-30.8"	-87.8"	-174.2"	-293.4"
TRAJ: 300 yds. zero	-1.5"	18.9"	20.6"	0.0	-46.6"	-122.8"	-231.7"
TRAJ: 400 yds. zero	-1.5"	30.5"	43.9"	35.0"	0.0	-64.5"	-161.8"
TRAJ: 500 yds. zero	-1.5"	43.4"	69.7"	73.7"	51.6"	0.0	-84.3"
TRAJ: 600 yds. zero	-1.5"	57.5"	97.8"	115.9"	107.9"	70.3"	0.0

348 CALIBER (.348" Dia.) 200 GRAIN FLAT POINT
SECTIONAL DENSITY: .236 BALLISTIC COEFFICIENT: .246

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2500	2327	2161	2002	1850	1706	1571
ENERGY (ft.-lbs.)	2775	2404	2073	1779	1519	1292	1095
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.1"	-6.2"	-12.9"	-22.6"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-1.9"	-6.0"	-12.6"	-22.3"
TRAJ: 150 yds. zero	-1.5"	0.7"	1.3"	0.0	-3.5"	-9.4"	-18.4"
TRAJ: 200 yds. zero	-1.5"	1.6"	3.0"	2.6"	0.0	-5.1"	-13.3"
TRAJ: 250 yds. zero	-1.5"	2.6"	5.1"	5.7"	4.1"	0.0	-7.1"
TRAJ: 300 yds. zero	-1.5"	3.8"	7.4"	9.2"	8.8"	5.9"	0.0
VELOCITY (fps)	2400	2231	2069	1913	1766	1627	1498
ENERGY (ft.-lbs.)	2558	2210	1900	1626	1385	1175	996
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.5"	-7.2"	-14.6"	-25.4"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.2"	-6.7"	-14.0"	-24.6"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-3.8"	-10.4"	-20.3"
TRAJ: 200 yds. zero	-1.5"	1.8"	3.3"	2.9"	0.0	-5.7"	-14.6"
TRAJ: 250 yds. zero	-1.5"	2.9"	5.6"	6.3"	4.5"	0.0	-7.8"
TRAJ: 300 yds. zero	-1.5"	4.2"	8.2"	10.2"	9.7"	6.5"	0.0
VELOCITY (fps)	2300	2135	1977	1826	1683	1550	1427
ENERGY (ft.-lbs.)	2349	2024	1735	1480	1258	1067	904
TRAJ: 50 yds. zero	-1.5"	0.0	-0.4"	-3.0"	-8.3"	-16.6"	-28.6"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.4"	-7.5"	-15.6"	-27.3"
TRAJ: 150 yds. zero	-1.5"	1.0"	1.6"	0.0	-4.2"	-11.5"	-22.5"
TRAJ: 200 yds. zero	-1.5"	2.1"	3.7"	3.2"	0.0	-6.2"	-16.1"
TRAJ: 250 yds. zero	-1.5"	3.3"	6.2"	6.9"	5.0"	0.0	-8.6"
TRAJ: 300 yds. zero	-1.5"	4.8"	9.1"	11.2"	10.8"	7.2"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2200	2039	1885	1739	1602	1475	1359
ENERGY (ft.-lbs.)	2149	1846	1578	1343	1140	966	820
TRAJ: 50 yds. zero	-1.5"	0.0	-0.6"	-3.6"	-9.6"	-18.9"	-32.2"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.7"	-8.4"	-17.4"	-30.4"
TRAJ: 150 yds. zero	-1.5"	1.2"	1.8"	0.0	-4.7"	-12.8"	-24.9"
TRAJ: 200 yds. zero	-1.5"	2.4"	4.2"	3.5"	0.0	-6.9"	-17.9"
TRAJ: 250 yds. zero	-1.5"	3.8"	7.0"	7.7"	5.5"	0.0	-9.5"
TRAJ: 300 yds. zero	-1.5"	5.4"	10.1"	12.5"	11.9"	8.0"	0.0
VELOCITY (fps)	2100	1943	1794	1654	1522	1402	1295
ENERGY (ft.-lbs.)	1958	1677	1430	1214	1029	873	744
TRAJ: 50 yds. zero	-1.5"	0.0	-0.8"	-4.3"	-11.0"	-21.5"	-36.4"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.1"	-9.4"	-19.5"	-33.9"
TRAJ: 150 yds. zero	-1.5"	1.4"	2.1"	0.0	-5.3"	-14.3"	-27.7"
TRAJ: 200 yds. zero	-1.5"	2.8"	4.7"	3.9"	0.0	-7.7"	-19.8"
TRAJ: 250 yds. zero	-1.5"	4.3"	7.8"	8.6"	6.2"	0.0	-10.6"
TRAJ: 300 yds. zero	-1.5"	6.1"	11.3"	13.9"	13.2"	8.8"	0.0

35 CALIBER (.358" Dia.) 180 GRAIN SINGLE SHOT PISTOL SPIRE POINT
SECTIONAL DENSITY: .201 BALLISTIC COEFFICIENT: .248

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2624	2278	1959	1670	1418	1215
ENERGY (ft.-lbs.)	3597	2752	2074	1534	1115	803	590
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.9"	-33.4"	-65.5"	-115.1"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.5"	-26.2"	-56.5"	-104.4"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.7"	0.0	-14.8"	-42.3"	-87.3"
TRAJ: 400 yds. zero	-1.5"	8.3"	13.1"	11.1"	0.0	-23.7"	-65.0"
TRAJ: 500 yds. zero	-1.5"	13.1"	22.6"	25.4"	19.0"	0.0	-36.5"
TRAJ: 600 yds. zero	-1.5"	19.2"	34.8"	43.6"	43.4"	30.5"	0.0
VELOCITY (fps)	2900	2533	2194	1882	1601	1360	1172
ENERGY (ft.-lbs.)	3361	2563	1923	1415	1024	739	549
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-15.2"	-36.4"	-71.2"	-125.2"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.3"	-28.4"	-61.4"	-113.3"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.2"	0.0	-16.1"	-45.9"	-94.8"
TRAJ: 400 yds. zero	-1.5"	9.1"	14.2"	12.1"	0.0	-25.8"	-70.7"
TRAJ: 500 yds. zero	-1.5"	14.2"	24.5"	27.5"	20.6"	0.0	-39.7"
TRAJ: 600 yds. zero	-1.5"	20.9"	37.8"	47.4"	47.1"	33.1"	0.0
VELOCITY (fps)	2800	2440	2108	1804	1533	1305	1133
ENERGY (ft.-lbs.)	3133	2380	1777	1301	939	680	513
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-16.6"	-39.7"	-77.7"	-136.5"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-10.1"	-30.9"	-66.8"	-123.3"
TRAJ: 300 yds. zero	-1.5"	5.5"	6.7"	0.0	-17.5"	-50.0"	-103.2"
TRAJ: 400 yds. zero	-1.5"	9.9"	15.5"	13.1"	0.0	-28.1"	-76.9"
TRAJ: 500 yds. zero	-1.5"	15.5"	26.7"	30.0"	22.5"	0.0	-43.2"
TRAJ: 600 yds. zero	-1.5"	22.7"	41.1"	51.6"	51.3"	36.0"	0.0
VELOCITY (fps)	2700	2348	2023	1728	1467	1252	1098
ENERGY (ft.-lbs.)	2913	2203	1636	1193	860	627	482
TRAJ: 100 yds. zero	-1.5"	0.0	-4.9"	-18.3"	-43.5"	-85.0"	-149.0"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-11.0"	-33.8"	-72.9"	-134.4"
TRAJ: 300 yds. zero	-1.5"	6.1"	7.3"	0.0	-19.1"	-54.6"	-112.4"
TRAJ: 400 yds. zero	-1.5"	10.9"	16.9"	14.3"	0.0	-30.7"	-83.8"
TRAJ: 500 yds. zero	-1.5"	17.0"	29.2"	32.7"	24.6"	0.0	-46.9"
TRAJ: 600 yds. zero	-1.5"	24.8"	44.8"	56.2"	55.9"	39.1"	0.0
VELOCITY (fps)	2600	2256	1939	1652	1402	1203	1066
ENERGY (ft.-lbs.)	2701	2034	1502	1090	786	579	454
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-20.1"	-47.7"	-93.2"	-162.9"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-12.0"	-37.0"	-79.8"	-146.7"
TRAJ: 300 yds. zero	-1.5"	6.7"	8.0"	0.0	-20.9"	-59.7"	-122.6"
TRAJ: 400 yds. zero	-1.5"	11.9"	18.5"	15.7"	0.0	-33.6"	-91.3"
TRAJ: 500 yds. zero	-1.5"	18.6"	31.9"	35.8"	26.9"	0.0	-51.0"
TRAJ: 600 yds. zero	-1.5"	27.1"	48.9"	61.3"	60.8"	42.5"	0.0
VELOCITY (fps)	2500	2163	1854	1577	1340	1158	1037
ENERGY (ft.-lbs.)	2498	1870	1374	994	718	536	430
TRAJ: 100 yds. zero	-1.5"	0.0	-6.0"	-22.2"	-52.5"	-102.4"	-178.2"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-13.2"	-40.5"	-87.5"	-160.2"
TRAJ: 300 yds. zero	-1.5"	7.4"	8.8"	0.0	-22.9"	-65.5"	-133.8"
TRAJ: 400 yds. zero	-1.5"	13.1"	20.3"	17.2"	0.0	-36.8"	-99.4"
TRAJ: 500 yds. zero	-1.5"	20.5"	35.0"	39.3"	29.4"	0.0	-55.2"
TRAJ: 600 yds. zero	-1.5"	29.7"	53.4"	66.9"	66.2"	46.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2400	2071	1771	1504	1281	1117	1011
ENERGY (ft.-lbs.)	2302	1714	1253	904	656	499	408
TRAJ: 100 yds. zero	-1.5"	0.0	-6.7"	-24.5"	-58.0"	-112.7"	-194.9"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-14.5"	-44.6"	-96.1"	-174.9"
TRAJ: 300 yds. zero	-1.5"	8.2"	9.7"	0.0	-25.2"	-71.8"	-145.8"
TRAJ: 400 yds. zero	-1.5"	14.5"	22.3"	18.9"	0.0	-40.3"	-108.0"
TRAJ: 500 yds. zero	-1.5"	22.5"	38.4"	43.1"	32.2"	0.0	-59.6"
TRAJ: 600 yds. zero	-1.5"	32.5"	58.3"	72.9"	72.0"	49.7"	0.0
VELOCITY (fps)	2300	1979	1688	1433	1226	1081	987
ENERGY (ft.-lbs.)	2114	1565	1138	820	601	467	389
TRAJ: 100 yds. zero	-1.5"	0.0	-7.5"	-27.2"	-64.1"	-124.2"	-213.3"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-16.1"	-49.2"	-105.6"	-190.9"
TRAJ: 300 yds. zero	-1.5"	9.1"	10.7"	0.0	-27.8"	-78.9"	-158.8"
TRAJ: 400 yds. zero	-1.5"	16.0"	24.6"	20.9"	0.0	-44.1"	-117.1"
TRAJ: 500 yds. zero	-1.5"	24.8"	42.2"	47.3"	35.3"	0.0	-64.2"
TRAJ: 600 yds. zero	-1.5"	35.5"	63.6"	79.4"	78.1"	53.5"	0.0
VELOCITY (fps)	2200	1888	1606	1365	1175	1048	964
ENERGY (ft.-lbs.)	1934	1424	1031	744	552	439	371
TRAJ: 100 yds. zero	-1.5"	0.0	-8.3"	-30.3"	-71.1"	-137.0"	-233.3"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-17.8"	-54.4"	-116.1"	-208.2"
TRAJ: 300 yds. zero	-1.5"	10.1"	11.9"	0.0	-30.7"	-86.5"	-172.7"
TRAJ: 400 yds. zero	-1.5"	17.8"	27.2"	23.0"	0.0	-48.1"	-126.6"
TRAJ: 500 yds. zero	-1.5"	27.4"	46.5"	51.9"	38.5"	0.0	-68.9"
TRAJ: 600 yds. zero	-1.5"	38.9"	69.4"	86.3"	84.4"	57.4"	0.0
VELOCITY (fps)	2100	1797	1526	1299	1130	1019	943
ENERGY (ft.-lbs.)	1762	1290	931	675	510	415	355
TRAJ: 100 yds. zero	-1.5"	0.0	-9.4"	-33.8"	-79.0"	-151.1"	-254.9"
TRAJ: 200 yds. zero	-1.5"	4.7"	0.0	-19.7"	-60.2"	-127.7"	-226.8"
TRAJ: 300 yds. zero	-1.5"	11.3"	13.2"	0.0	-33.9"	-94.8"	-187.4"
TRAJ: 400 yds. zero	-1.5"	19.7"	30.1"	25.4"	0.0	-52.4"	-136.5"
TRAJ: 500 yds. zero	-1.5"	30.2"	51.1"	56.9"	41.9"	0.0	-73.6"
TRAJ: 600 yds. zero	-1.5"	42.5"	75.6"	93.7"	91.0"	61.4"	0.0
VELOCITY (fps)	2000	1706	1449	1238	1089	992	922
ENERGY (ft.-lbs.)	1598	1164	839	613	474	393	340
TRAJ: 100 yds. zero	-1.5"	0.0	-10.5"	-37.8"	-87.8"	-166.5"	-278.4"
TRAJ: 200 yds. zero	-1.5"	5.3"	0.0	-22.0"	-66.7"	-140.2"	-246.8"
TRAJ: 300 yds. zero	-1.5"	12.6"	14.7"	0.0	-37.4"	-103.5"	-202.8"
TRAJ: 400 yds. zero	-1.5"	22.0"	33.4"	28.1"	0.0	-56.8"	-146.7"
TRAJ: 500 yds. zero	-1.5"	33.3"	56.1"	62.1"	45.4"	0.0	-78.6"
TRAJ: 600 yds. zero	-1.5"	46.4"	82.3"	101.4"	97.8"	65.5"	0.0
VELOCITY (fps)	1900	1617	1374	1182	1052	967	903
ENERGY (ft.-lbs.)	1443	1045	754	558	443	374	326
TRAJ: 100 yds. zero	-1.5"	0.0	-11.9"	-42.4"	-97.7"	-183.4"	-303.8"
TRAJ: 200 yds. zero	-1.5"	6.0"	0.0	-24.5"	-73.9"	-153.6"	-268.1"
TRAJ: 300 yds. zero	-1.5"	14.1"	16.3"	0.0	-41.2"	-112.8"	-219.1"
TRAJ: 400 yds. zero	-1.5"	24.4"	36.9"	30.9"	0.0	-61.3"	-157.3"
TRAJ: 500 yds. zero	-1.5"	36.7"	61.5"	67.7"	49.0"	0.0	-83.7"
TRAJ: 600 yds. zero	-1.5"	50.6"	89.4"	109.5"	104.9"	69.8"	0.0
VELOCITY (fps)	1800	1529	1302	1131	1020	943	884
ENERGY (ft.-lbs.)	1295	935	677	511	416	356	312
TRAJ: 100 yds. zero	-1.5"	0.0	-13.5"	-47.6"	-108.6"	-201.8"	-331.3"
TRAJ: 200 yds. zero	-1.5"	6.7"	0.0	-27.4"	-81.7"	-168.1"	-290.8"
TRAJ: 300 yds. zero	-1.5"	15.9"	18.2"	0.0	-45.2"	-122.5"	-236.1"
TRAJ: 400 yds. zero	-1.5"	27.2"	40.8"	33.9"	0.0	-66.0"	-168.4"
TRAJ: 500 yds. zero	-1.5"	40.4"	67.2"	73.5"	52.8"	0.0	-89.2"
TRAJ: 600 yds. zero	-1.5"	55.2"	96.9"	118.1"	112.2"	74.3"	0.0
VELOCITY (fps)	1700	1443	1234	1086	990	921	865
ENERGY (ft.-lbs.)	1155	832	609	471	392	339	299
TRAJ: 100 yds. zero	-1.5"	0.0	-15.3"	-53.5"	-120.7"	-221.7"	-361.0"
TRAJ: 200 yds. zero	-1.5"	7.7"	0.0	-30.5"	-90.0"	-183.4"	-315.0"
TRAJ: 300 yds. zero	-1.5"	17.8"	20.4"	0.0	-49.3"	-132.5"	-254.0"
TRAJ: 400 yds. zero	-1.5"	30.2"	45.0"	37.0"	0.0	-70.9"	-180.0"
TRAJ: 500 yds. zero	-1.5"	44.3"	73.4"	79.5"	56.7"	0.0	-95.0"
TRAJ: 600 yds. zero	-1.5"	60.2"	105.0"	127.0"	120.0"	79.1"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1600	1359	1172	1046	962	899	846
ENERGY (ft.-lbs.)	1023	738	549	437	370	323	286
TRAJ: 100 yds. zero	-1.5"	0.0	-17.4"	-60.1"	-133.8"	-243.3"	-393.1"
TRAJ: 200 yds. zero	-1.5"	8.7"	0.0	-34.0"	-99.0"	-199.8"	-340.9"
TRAJ: 300 yds. zero	-1.5"	20.0"	22.6"	0.0	-53.7"	-143.1"	-272.9"
TRAJ: 400 yds. zero	-1.5"	33.5"	49.5"	40.3"	0.0	-76.0"	-192.4"
TRAJ: 500 yds. zero	-1.5"	48.7"	79.9"	85.9"	60.8"	0.0	-101.2"
TRAJ: 600 yds. zero	-1.5"	65.5"	113.6"	136.5"	128.3"	84.3"	0.0
VELOCITY (fps)	1500	1278	1115	1009	936	877	827
ENERGY (ft.-lbs.)	899	653	497	407	350	308	274
TRAJ: 100 yds. zero	-1.5"	0.0	-19.8"	-67.4"	-148.2"	-266.8"	-428.0"
TRAJ: 200 yds. zero	-1.5"	9.9"	0.0	-37.6"	-108.5"	-217.2"	-368.5"
TRAJ: 300 yds. zero	-1.5"	22.5"	25.1"	0.0	-58.3"	-154.5"	-293.2"
TRAJ: 400 yds. zero	-1.5"	37.0"	54.2"	43.7"	0.0	-81.6"	-205.8"
TRAJ: 500 yds. zero	-1.5"	53.4"	86.9"	92.7"	65.3"	0.0	-107.8"
TRAJ: 600 yds. zero	-1.5"	71.3"	122.8"	146.6"	137.2"	89.9"	0.0
VELOCITY (fps)	1400	1202	1065	976	910	855	808
ENERGY (ft.-lbs.)	783	577	453	380	331	292	261
TRAJ: 100 yds. zero	-1.5"	0.0	-22.6"	-75.4"	-163.8"	-292.5"	-466.2"
TRAJ: 200 yds. zero	-1.5"	11.3"	0.0	-41.6"	-118.6"	-236.1"	-398.5"
TRAJ: 300 yds. zero	-1.5"	25.1"	27.7"	0.0	-63.2"	-166.8"	-315.4"
TRAJ: 400 yds. zero	-1.5"	40.9"	59.3"	47.4"	0.0	-87.7"	-220.6"
TRAJ: 500 yds. zero	-1.5"	58.5"	94.4"	100.1"	70.2"	0.0	-115.3"
TRAJ: 600 yds. zero	-1.5"	77.7"	132.8"	157.7"	147.0"	96.0"	0.0

35 CALIBER (.358" Dia.) 200 GRAIN SPIRE POINT
SECTIONAL DENSITY: .223 BALLISTIC COEFFICIENT: .282

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2575	2273	1991	1732	1500	1302
ENERGY (ft.-lbs.)	3734	2945	2294	1760	1332	999	753
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.3"	-33.7"	-64.7"	-111.4"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.7"	-26.1"	-55.3"	-100.1"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.8"	0.0	-14.6"	-40.9"	-82.8"
TRAJ: 400 yds. zero	-1.5"	8.4"	13.1"	10.9"	0.0	-22.6"	-60.9"
TRAJ: 500 yds. zero	-1.5"	12.9"	22.1"	24.5"	18.1"	0.0	-33.7"
TRAJ: 600 yds. zero	-1.5"	18.6"	33.4"	41.4"	40.6"	28.1"	0.0
VELOCITY (fps)	2800	2482	2186	1911	1659	1437	1251
ENERGY (ft.-lbs.)	3481	2736	2122	1621	1223	916	695
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.7"	-36.7"	-70.6"	-121.4"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.4"	-28.4"	-60.1"	-108.9"
TRAJ: 300 yds. zero	-1.5"	5.2"	6.3"	0.0	-15.9"	-44.5"	-90.1"
TRAJ: 400 yds. zero	-1.5"	9.2"	14.2"	11.9"	0.0	-24.6"	-66.3"
TRAJ: 500 yds. zero	-1.5"	14.1"	24.1"	26.7"	19.7"	0.0	-36.8"
TRAJ: 600 yds. zero	-1.5"	20.2"	36.3"	45.1"	44.2"	30.6"	0.0
VELOCITY (fps)	2700	2389	2099	1831	1588	1375	1203
ENERGY (ft.-lbs.)	3237	2534	1957	1489	1119	840	643
TRAJ: 100 yds. zero	-1.5"	0.0	-4.6"	-17.2"	-40.2"	-77.1"	-132.7"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.3"	-31.0"	-65.6"	-118.8"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.8"	0.0	-17.3"	-48.5"	-98.3"
TRAJ: 400 yds. zero	-1.5"	10.1"	15.5"	13.0"	0.0	-26.9"	-72.4"
TRAJ: 500 yds. zero	-1.5"	15.4"	26.2"	29.1"	21.5"	0.0	-40.1"
TRAJ: 600 yds. zero	-1.5"	22.1"	39.6"	49.2"	48.3"	33.4"	0.0
VELOCITY (fps)	2600	2296	2013	1752	1517	1316	1159
ENERGY (ft.-lbs.)	3002	2340	1799	1362	1022	769	596
TRAJ: 100 yds. zero	-1.5"	0.0	-5.1"	-18.9"	-44.1"	-84.6"	-145.3"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.2"	-33.8"	-71.7"	-129.9"
TRAJ: 300 yds. zero	-1.5"	6.3"	7.5"	0.0	-18.9"	-53.1"	-107.5"
TRAJ: 400 yds. zero	-1.5"	11.0"	16.9"	14.2"	0.0	-29.4"	-79.1"
TRAJ: 500 yds. zero	-1.5"	16.9"	28.7"	31.8"	23.5"	0.0	-43.8"
TRAJ: 600 yds. zero	-1.5"	24.2"	43.3"	53.7"	52.8"	36.5"	0.0
VELOCITY (fps)	2500	2203	1926	1673	1449	1261	1119
ENERGY (ft.-lbs.)	2775	2154	1647	1243	932	706	556
TRAJ: 100 yds. zero	-1.5"	0.0	-5.7"	-20.9"	-48.5"	-92.9"	-159.4"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.3"	-37.1"	-78.6"	-142.3"
TRAJ: 300 yds. zero	-1.5"	7.0"	8.2"	0.0	-20.7"	-58.2"	-117.7"
TRAJ: 400 yds. zero	-1.5"	12.1"	18.6"	15.5"	0.0	-32.3"	-86.6"
TRAJ: 500 yds. zero	-1.5"	18.6"	31.5"	34.9"	25.8"	0.0	-47.9"
TRAJ: 600 yds. zero	-1.5"	26.6"	47.4"	58.8"	57.7"	39.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2400	2109	1840	1596	1382	1209	1083
ENERGY (ft.-lbs.)	2558	1976	1504	1131	848	649	521
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-23.1"	-53.5"	-102.4"	-175.1"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.5"	-40.8"	-86.5"	-156.0"
TRAJ: 300 yds. zero	-1.5"	7.7"	9.0"	0.0	-22.8"	-63.9"	-129.0"
TRAJ: 400 yds. zero	-1.5"	13.4"	20.4"	17.1"	0.0	-35.5"	-94.8"
TRAJ: 500 yds. zero	-1.5"	20.5"	34.6"	38.4"	28.4"	0.0	-52.3"
TRAJ: 600 yds. zero	-1.5"	29.2"	52.0"	64.5"	63.2"	43.6"	0.0
VELOCITY (fps)	2300	2016	1755	1520	1319	1161	1051
ENERGY (ft.-lbs.)	2349	1805	1368	1026	772	598	490
TRAJ: 100 yds. zero	-1.5"	0.0	-7.1"	-25.6"	-59.2"	-113.0"	-192.6"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-14.9"	-45.0"	-95.3"	-171.2"
TRAJ: 300 yds. zero	-1.5"	8.5"	9.9"	0.0	-25.1"	-70.4"	-141.4"
TRAJ: 400 yds. zero	-1.5"	14.8"	22.5"	18.8"	0.0	-39.0"	-103.7"
TRAJ: 500 yds. zero	-1.5"	22.6"	38.1"	42.2"	31.2"	0.0	-56.9"
TRAJ: 600 yds. zero	-1.5"	32.1"	57.1"	70.7"	69.1"	47.4"	0.0
VELOCITY (fps)	2200	1924	1671	1447	1259	1118	1022
ENERGY (ft.-lbs.)	2149	1643	1240	929	704	555	464
TRAJ: 100 yds. zero	-1.5"	0.0	-8.0"	-28.5"	-65.7"	-125.0"	-211.8"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-16.5"	-49.8"	-105.1"	-187.9"
TRAJ: 300 yds. zero	-1.5"	9.5"	11.0"	0.0	-27.8"	-77.6"	-154.9"
TRAJ: 400 yds. zero	-1.5"	16.4"	24.9"	20.8"	0.0	-42.9"	-113.3"
TRAJ: 500 yds. zero	-1.5"	25.0"	42.1"	46.6"	34.3"	0.0	-61.8"
TRAJ: 600 yds. zero	-1.5"	35.3"	62.6"	77.4"	75.5"	51.5"	0.0
VELOCITY (fps)	2100	1832	1588	1376	1204	1080	995
ENERGY (ft.-lbs.)	1958	1490	1120	840	643	518	440
TRAJ: 100 yds. zero	-1.5"	0.0	-8.9"	-31.8"	-73.1"	-138.4"	-232.9"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-18.4"	-55.2"	-116.1"	-206.1"
TRAJ: 300 yds. zero	-1.5"	10.6"	12.2"	0.0	-30.7"	-85.5"	-169.4"
TRAJ: 400 yds. zero	-1.5"	18.3"	27.6"	23.1"	0.0	-47.1"	-123.3"
TRAJ: 500 yds. zero	-1.5"	27.7"	46.4"	51.3"	37.7"	0.0	-66.8"
TRAJ: 600 yds. zero	-1.5"	38.8"	68.7"	84.7"	82.2"	55.7"	0.0
VELOCITY (fps)	2000	1740	1507	1308	1153	1046	971
ENERGY (ft.-lbs.)	1776	1344	1008	760	590	485	418
TRAJ: 100 yds. zero	-1.5"	0.0	-10.1"	-35.5"	-81.4"	-153.4"	-256.0"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-20.4"	-61.3"	-128.2"	-225.8"
TRAJ: 300 yds. zero	-1.5"	11.8"	13.6"	0.0	-34.1"	-94.2"	-184.9"
TRAJ: 400 yds. zero	-1.5"	20.4"	30.7"	25.6"	0.0	-51.6"	-133.8"
TRAJ: 500 yds. zero	-1.5"	30.7"	51.3"	56.5"	41.3"	0.0	-71.9"
TRAJ: 600 yds. zero	-1.5"	42.7"	75.3"	92.5"	89.2"	59.9"	0.0
VELOCITY (fps)	1900	1649	1428	1244	1108	1015	948
ENERGY (ft.-lbs.)	1603	1208	906	688	545	457	399
TRAJ: 100 yds. zero	-1.5"	0.0	-11.4"	-39.9"	-90.9"	-169.9"	-281.2"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-22.8"	-68.2"	-141.5"	-247.1"
TRAJ: 300 yds. zero	-1.5"	13.3"	15.2"	0.0	-37.7"	-103.5"	-201.4"
TRAJ: 400 yds. zero	-1.5"	22.7"	34.1"	28.3"	0.0	-56.3"	-144.8"
TRAJ: 500 yds. zero	-1.5"	34.0"	56.6"	62.1"	45.0"	0.0	-77.2"
TRAJ: 600 yds. zero	-1.5"	46.9"	82.4"	100.7"	96.5"	64.4"	0.0
VELOCITY (fps)	1800	1560	1352	1186	1067	987	926
ENERGY (ft.-lbs.)	1439	1081	812	624	506	432	380
TRAJ: 100 yds. zero	-1.5"	0.0	-12.9"	-44.9"	-101.6"	-188.1"	-308.5"
TRAJ: 200 yds. zero	-1.5"	6.4"	0.0	-25.6"	-75.8"	-155.9"	-269.9"
TRAJ: 300 yds. zero	-1.5"	15.0"	17.0"	0.0	-41.8"	-113.3"	-218.8"
TRAJ: 400 yds. zero	-1.5"	25.4"	37.9"	31.3"	0.0	-61.1"	-156.1"
TRAJ: 500 yds. zero	-1.5"	37.6"	62.4"	68.0"	48.9"	0.0	-82.7"
TRAJ: 600 yds. zero	-1.5"	51.4"	90.0"	109.4"	104.1"	69.0"	0.0
VELOCITY (fps)	1700	1472	1279	1132	1032	960	904
ENERGY (ft.-lbs.)	1283	962	727	569	473	410	363
TRAJ: 100 yds. zero	-1.5"	0.0	-14.6"	-50.6"	-113.5"	-208.0"	-338.2"
TRAJ: 200 yds. zero	-1.5"	7.3"	0.0	-28.6"	-84.2"	-171.4"	-294.3"
TRAJ: 300 yds. zero	-1.5"	16.9"	19.1"	0.0	-46.0"	-123.7"	-237.0"
TRAJ: 400 yds. zero	-1.5"	28.4"	42.1"	34.5"	0.0	-66.2"	-168.0"
TRAJ: 500 yds. zero	-1.5"	41.6"	68.6"	74.2"	52.9"	0.0	-88.6"
TRAJ: 600 yds. zero	-1.5"	56.4"	98.1"	118.5"	112.0"	73.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1600	1386	1211	1085	999	935	884
ENERGY (ft.-lbs.)	1137	853	651	523	443	389	347
TRAJ: 100 yds. zero	-1.5"	0.0	-16.7"	-57.1"	-126.6"	-229.7"	-370.4"
TRAJ: 200 yds. zero	-1.5"	8.3"	0.0	-32.0"	-93.2"	-188.0"	-320.3"
TRAJ: 300 yds. zero	-1.5"	19.0"	21.4"	0.0	-50.5"	-134.6"	-256.2"
TRAJ: 400 yds. zero	-1.5"	31.6"	46.6"	37.9"	0.0	-71.5"	-180.5"
TRAJ: 500 yds. zero	-1.5"	45.9"	75.2"	80.8"	57.2"	0.0	-94.7"
TRAJ: 600 yds. zero	-1.5"	61.7"	106.8"	128.1"	120.3"	78.9"	0.0
VELOCITY (fps)	1500	1302	1149	1043	969	911	863
ENERGY (ft.-lbs.)	999	753	586	483	417	369	331
TRAJ: 100 yds. zero	-1.5"	0.0	-19.1"	-64.4"	-141.0"	-253.4"	-405.5"
TRAJ: 200 yds. zero	-1.5"	9.5"	0.0	-35.8"	-102.9"	-205.7"	-348.3"
TRAJ: 300 yds. zero	-1.5"	21.5"	23.9"	0.0	-55.2"	-146.1"	-276.7"
TRAJ: 400 yds. zero	-1.5"	35.3"	51.5"	41.4"	0.0	-77.1"	-193.9"
TRAJ: 500 yds. zero	-1.5"	50.7"	82.3"	87.7"	61.7"	0.0	-101.4"
TRAJ: 600 yds. zero	-1.5"	67.6"	116.1"	138.4"	129.3"	84.5"	0.0
VELOCITY (fps)	1400	1222	1092	1004	939	887	842
ENERGY (ft.-lbs.)	870	663	530	448	392	349	315
TRAJ: 100 yds. zero	-1.5"	0.0	-21.8"	-72.5"	-156.9"	-279.3"	-443.9"
TRAJ: 200 yds. zero	-1.5"	10.9"	0.0	-39.8"	-113.3"	-224.8"	-378.5"
TRAJ: 300 yds. zero	-1.5"	24.2"	26.5"	0.0	-60.2"	-158.5"	-298.9"
TRAJ: 400 yds. zero	-1.5"	39.2"	56.6"	45.2"	0.0	-83.2"	-208.6"
TRAJ: 500 yds. zero	-1.5"	55.9"	89.9"	95.1"	66.6"	0.0	-108.7"
TRAJ: 600 yds. zero	-1.5"	74.0"	126.2"	149.5"	139.1"	90.6"	0.0
VELOCITY (fps)	1300	1147	1042	968	910	862	820
ENERGY (ft.-lbs.)	750	584	482	416	368	330	298
TRAJ: 100 yds. zero	-1.5"	0.0	-24.8"	-81.4"	-174.3"	-308.0"	-486.6"
TRAJ: 200 yds. zero	-1.5"	12.4"	0.0	-44.2"	-124.6"	-245.8"	-412.0"
TRAJ: 300 yds. zero	-1.5"	27.1"	29.4"	0.0	-65.8"	-172.3"	-323.7"
TRAJ: 400 yds. zero	-1.5"	43.6"	62.3"	49.3"	0.0	-90.0"	-225.0"
TRAJ: 500 yds. zero	-1.5"	61.6"	98.3"	103.4"	72.0"	0.0	-117.0"
TRAJ: 600 yds. zero	-1.5"	81.1"	137.3"	161.8"	150.0"	97.5"	0.0

35 CALIBER (.358" Dia.) 200 GRAIN ROUND NOSE
SECTIONAL DENSITY: .223 BALLISTIC COEFFICIENT: .195

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2900	2663	2438	2224	2020	1829	1650
ENERGY (ft.-lbs.)	3734	3148	2639	2196	1813	1485	1209
TRAJ: 50 yds. zero	-1.5"	0.0	0.3"	-0.9"	-3.9"	-9.0"	-16.7"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.3"	-4.4"	-9.6"	-17.5"
TRAJ: 150 yds. zero	-1.5"	0.3"	0.9"	0.0	-2.6"	-7.4"	-14.8"
TRAJ: 200 yds. zero	-1.5"	1.0"	2.2"	2.0"	0.0	-4.1"	-10.9"
TRAJ: 250 yds. zero	-1.5"	1.8"	3.9"	4.5"	3.3"	0.0	-5.9"
TRAJ: 300 yds. zero	-1.5"	2.8"	5.8"	7.4"	7.2"	4.9"	0.0
VELOCITY (fps)	2800	2568	2348	2138	1939	1753	1580
ENERGY (ft.-lbs.)	3481	2928	2447	2030	1670	1364	1109
TRAJ: 50 yds. zero	-1.5"	0.0	0.2"	-1.2"	-4.5"	-10.2"	-18.6"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.5"	-4.9"	-10.6"	-19.2"
TRAJ: 150 yds. zero	-1.5"	0.4"	1.0"	0.0	-2.9"	-8.1"	-16.2"
TRAJ: 200 yds. zero	-1.5"	1.1"	2.4"	2.2"	0.0	-4.5"	-11.8"
TRAJ: 250 yds. zero	-1.5"	2.0"	4.2"	4.9"	3.6"	0.0	-6.4"
TRAJ: 300 yds. zero	-1.5"	3.1"	6.4"	8.1"	7.9"	5.4"	0.0
VELOCITY (fps)	2700	2473	2257	2052	1859	1678	1512
ENERGY (ft.-lbs.)	3237	2716	2262	1870	1534	1250	1015
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.6"	-5.3"	-11.5"	-20.8"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-1.7"	-5.4"	-11.7"	-21.1"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.1"	0.0	-3.2"	-8.9"	-17.7"
TRAJ: 200 yds. zero	-1.5"	1.3"	2.7"	2.4"	0.0	-4.9"	-12.9"
TRAJ: 250 yds. zero	-1.5"	2.3"	4.7"	5.3"	3.9"	0.0	-7.0"
TRAJ: 300 yds. zero	-1.5"	3.5"	7.0"	8.9"	8.6"	5.9"	0.0
VELOCITY (fps)	2600	2378	2167	1967	1779	1604	1445
ENERGY (ft.-lbs.)	3002	2511	2085	1718	1404	1142	927
TRAJ: 50 yds. zero	-1.5"	0.0	-0.0"	-1.9"	-6.1"	-13.0"	-23.3"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.9"	-6.0"	-12.9"	-23.2"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.3"	0.0	-3.5"	-9.8"	-19.4"
TRAJ: 200 yds. zero	-1.5"	1.5"	3.0"	2.6"	0.0	-5.4"	-14.2"
TRAJ: 250 yds. zero	-1.5"	2.6"	5.2"	5.9"	4.3"	0.0	-7.7"
TRAJ: 300 yds. zero	-1.5"	3.9"	7.7"	9.7"	9.5"	6.4"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2500	2283	2077	1882	1699	1531	1380
ENERGY (ft.-lbs.)	2775	2314	1915	1572	1282	1041	846
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.4"	-7.0"	-14.7"	-26.1"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.1"	-6.7"	-14.3"	-25.6"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-3.9"	-10.8"	-21.4"
TRAJ: 200 yds. zero	-1.5"	1.8"	3.3"	2.9"	0.0	-5.9"	-15.6"
TRAJ: 250 yds. zero	-1.5"	2.9"	5.7"	6.5"	4.7"	0.0	-8.5"
TRAJ: 300 yds. zero	-1.5"	4.4"	8.5"	10.7"	10.4"	7.1"	0.0
VELOCITY (fps)	2400	2188	1987	1797	1621	1460	1319
ENERGY (ft.-lbs.)	2558	2125	1752	1434	1166	947	772
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-2.9"	-8.1"	-16.6"	-29.3"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.4"	-7.4"	-15.8"	-28.3"
TRAJ: 150 yds. zero	-1.5"	1.0"	1.6"	0.0	-4.3"	-11.9"	-23.6"
TRAJ: 200 yds. zero	-1.5"	2.0"	3.7"	3.2"	0.0	-6.5"	-17.2"
TRAJ: 250 yds. zero	-1.5"	3.3"	6.3"	7.1"	5.2"	0.0	-9.3"
TRAJ: 300 yds. zero	-1.5"	4.9"	9.4"	11.8"	11.4"	7.8"	0.0
VELOCITY (fps)	2300	2093	1897	1713	1544	1392	1260
ENERGY (ft.-lbs.)	2349	1945	1598	1303	1059	860	705
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.4"	-9.3"	-18.8"	-32.9"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.7"	-8.3"	-17.6"	-31.4"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.8"	0.0	-4.8"	-13.2"	-26.1"
TRAJ: 200 yds. zero	-1.5"	2.3"	4.2"	3.6"	0.0	-7.2"	-19.0"
TRAJ: 250 yds. zero	-1.5"	3.8"	7.0"	7.9"	5.8"	0.0	-10.3"
TRAJ: 300 yds. zero	-1.5"	5.5"	10.5"	13.0"	12.6"	8.6"	0.0
VELOCITY (fps)	2200	1998	1808	1631	1469	1326	1206
ENERGY (ft.-lbs.)	2149	1773	1451	1181	958	781	645
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.0"	-10.7"	-21.3"	-37.0"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-3.0"	-9.3"	-19.6"	-34.9"
TRAJ: 150 yds. zero	-1.5"	1.3"	2.0"	0.0	-5.3"	-14.6"	-28.9"
TRAJ: 200 yds. zero	-1.5"	2.7"	4.7"	4.0"	0.0	-8.0"	-21.0"
TRAJ: 250 yds. zero	-1.5"	4.3"	7.9"	8.8"	6.4"	0.0	-11.4"
TRAJ: 300 yds. zero	-1.5"	6.2"	11.6"	14.5"	14.0"	9.5"	0.0
VELOCITY (fps)	2100	1904	1720	1550	1397	1264	1156
ENERGY (ft.-lbs.)	1958	1609	1313	1066	866	710	593
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-4.8"	-12.3"	-24.2"	-41.6"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.4"	-10.4"	-21.9"	-38.9"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.3"	0.0	-5.9"	-16.3"	-32.1"
TRAJ: 200 yds. zero	-1.5"	3.1"	5.2"	4.4"	0.0	-8.9"	-23.3"
TRAJ: 250 yds. zero	-1.5"	4.8"	8.8"	9.8"	7.1"	0.0	-12.6"
TRAJ: 300 yds. zero	-1.5"	6.9"	13.0"	16.1"	15.5"	10.5"	0.0
VELOCITY (fps)	2000	1810	1632	1471	1328	1207	1112
ENERGY (ft.-lbs.)	1776	1454	1183	960	783	647	549
TRAJ: 50 yds. zero	-1.5"	0.0	-1.2"	-5.6"	-14.1"	-27.5"	-46.9"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.9"	-11.7"	-24.6"	-43.4"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.6"	0.0	-6.6"	-18.2"	-35.7"
TRAJ: 200 yds. zero	-1.5"	3.5"	5.9"	5.0"	0.0	-9.9"	-25.8"
TRAJ: 250 yds. zero	-1.5"	5.5"	9.8"	10.9"	7.9"	0.0	-13.9"
TRAJ: 300 yds. zero	-1.5"	7.8"	14.5"	17.8"	17.2"	11.6"	0.0
VELOCITY (fps)	1900	1716	1547	1394	1262	1154	1072
ENERGY (ft.-lbs.)	1603	1308	1062	863	707	592	510
TRAJ: 50 yds. zero	-1.5"	0.0	-1.5"	-6.6"	-16.2"	-31.2"	-52.8"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.4"	-13.2"	-27.6"	-48.4"
TRAJ: 150 yds. zero	-1.5"	2.2"	2.9"	0.0	-7.4"	-20.3"	-39.7"
TRAJ: 200 yds. zero	-1.5"	4.0"	6.6"	5.5"	0.0	-11.0"	-28.6"
TRAJ: 250 yds. zero	-1.5"	6.2"	11.0"	12.2"	8.8"	0.0	-15.3"
TRAJ: 300 yds. zero	-1.5"	8.8"	16.1"	19.8"	19.0"	12.8"	0.0
VELOCITY (fps)	1800	1624	1463	1321	1201	1107	1037
ENERGY (ft.-lbs.)	1439	1170	950	774	641	544	477
TRAJ: 50 yds. zero	-1.5"	0.0	-1.8"	-7.7"	-18.6"	-35.5"	-59.4"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-5.0"	-15.0"	-31.0"	-54.0"
TRAJ: 150 yds. zero	-1.5"	2.6"	3.3"	0.0	-8.3"	-22.7"	-44.0"
TRAJ: 200 yds. zero	-1.5"	4.6"	7.5"	6.2"	0.0	-12.3"	-31.6"
TRAJ: 250 yds. zero	-1.5"	7.1"	12.4"	13.6"	9.8"	0.0	-16.8"
TRAJ: 300 yds. zero	-1.5"	9.9"	18.0"	22.0"	21.0"	14.0"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1700	1532	1381	1251	1146	1066	1005
ENERGY (ft.-lbs.)	1283	1042	847	695	583	504	449
TRAJ: 50 yds. zero	-1.5"	0.0	-2.2"	-9.0"	-21.3"	-40.3"	-66.7"
TRAJ: 100 yds. zero	-1.5"	1.1"	0.0	-5.7"	-16.9"	-34.7"	-60.1"
TRAJ: 150 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.3"	-25.3"	-48.7"
TRAJ: 200 yds. zero	-1.5"	5.3"	8.5"	7.0"	0.0	-13.6"	-34.7"
TRAJ: 250 yds. zero	-1.5"	8.1"	13.9"	15.2"	10.9"	0.0	-18.4"
TRAJ: 300 yds. zero	-1.5"	11.1"	20.0"	24.4"	23.2"	15.3"	0.0
VELOCITY (fps)	1600	1442	1302	1186	1096	1029	976
ENERGY (ft.-lbs.)	1137	923	753	625	534	470	423
TRAJ: 50 yds. zero	-1.5"	0.0	-2.7"	-10.5"	-24.5"	-45.7"	-74.8"
TRAJ: 100 yds. zero	-1.5"	1.3"	0.0	-6.5"	-19.1"	-38.9"	-66.8"
TRAJ: 150 yds. zero	-1.5"	3.5"	4.3"	0.0	-10.5"	-28.1"	-53.8"
TRAJ: 200 yds. zero	-1.5"	6.1"	9.6"	7.9"	0.0	-15.0"	-38.1"
TRAJ: 250 yds. zero	-1.5"	9.1"	15.6"	16.9"	12.0"	0.0	-20.0"
TRAJ: 300 yds. zero	-1.5"	12.5"	22.3"	26.9"	25.4"	16.7"	0.0
VELOCITY (fps)	1500	1353	1228	1128	1052	995	948
ENERGY (ft.-lbs.)	999	813	669	565	492	439	399
TRAJ: 50 yds. zero	-1.5"	0.0	-3.3"	-12.3"	-28.1"	-51.7"	-83.7"
TRAJ: 100 yds. zero	-1.5"	1.6"	0.0	-7.4"	-21.6"	-43.5"	-74.0"
TRAJ: 150 yds. zero	-1.5"	4.1"	4.9"	0.0	-11.7"	-31.2"	-59.2"
TRAJ: 200 yds. zero	-1.5"	7.0"	10.8"	8.8"	0.0	-16.5"	-41.6"
TRAJ: 250 yds. zero	-1.5"	10.3"	17.4"	18.7"	13.2"	0.0	-21.7"
TRAJ: 300 yds. zero	-1.5"	14.0"	24.7"	29.6"	27.7"	18.1"	0.0
VELOCITY (fps)	1400	1267	1158	1075	1012	963	921
ENERGY (ft.-lbs.)	870	713	596	513	455	411	376
TRAJ: 50 yds. zero	-1.5"	0.0	-3.9"	-14.3"	-32.1"	-58.3"	-93.6"
TRAJ: 100 yds. zero	-1.5"	2.0"	0.0	-8.4"	-24.3"	-48.5"	-81.8"
TRAJ: 150 yds. zero	-1.5"	4.8"	5.6"	0.0	-13.1"	-34.5"	-64.9"
TRAJ: 200 yds. zero	-1.5"	8.0"	12.2"	9.8"	0.0	-18.1"	-45.3"
TRAJ: 250 yds. zero	-1.5"	11.7"	19.4"	20.7"	14.5"	0.0	-23.6"
TRAJ: 300 yds. zero	-1.5"	15.6"	27.3"	32.5"	30.2"	19.7"	0.0
VELOCITY (fps)	1300	1184	1095	1027	975	931	893
ENERGY (ft.-lbs.)	750	623	532	469	422	385	354
TRAJ: 50 yds. zero	-1.5"	0.0	-4.7"	-16.6"	-36.7"	-65.7"	-104.5"
TRAJ: 100 yds. zero	-1.5"	2.3"	0.0	-9.6"	-27.3"	-54.0"	-90.4"
TRAJ: 150 yds. zero	-1.5"	5.5"	6.4"	0.0	-14.5"	-38.0"	-71.3"
TRAJ: 200 yds. zero	-1.5"	9.2"	13.6"	10.9"	0.0	-19.9"	-49.5"
TRAJ: 250 yds. zero	-1.5"	13.1"	21.6"	22.8"	15.9"	0.0	-25.7"
TRAJ: 300 yds. zero	-1.5"	17.4"	30.1"	35.6"	33.0"	21.4"	0.0

35 CALIBER (.358" Dia.) 250 GRAIN SPIRE POINT
SECTIONAL DENSITY: .279 BALLISTIC COEFFICIENT: .375

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2800	2559	2330	2114	1909	1717	1541
ENERGY (ft.-lbs.)	4351	3634	3014	2479	2022	1637	1318
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.1"	-32.1"	-59.7"	-99.2"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.3"	-24.5"	-50.2"	-87.8"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.6"	0.0	-13.4"	-36.3"	-71.1"
TRAJ: 400 yds. zero	-1.5"	8.0"	12.2"	10.0"	0.0	-19.6"	-51.1"
TRAJ: 500 yds. zero	-1.5"	11.9"	20.1"	21.8"	15.7"	0.0	-27.5"
TRAJ: 600 yds. zero	-1.5"	16.5"	29.3"	35.5"	34.0"	22.9"	0.0
VELOCITY (fps)	2700	2464	2240	2028	1829	1643	1474
ENERGY (ft.-lbs.)	4046	3370	2786	2284	1856	1499	1207
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.4"	-35.1"	-65.2"	-108.2"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.1"	-26.6"	-54.6"	-95.5"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.0"	0.0	-14.5"	-39.5"	-77.4"
TRAJ: 400 yds. zero	-1.5"	8.8"	13.3"	10.9"	0.0	-21.3"	-55.6"
TRAJ: 500 yds. zero	-1.5"	13.0"	21.8"	23.7"	17.1"	0.0	-30.0"
TRAJ: 600 yds. zero	-1.5"	18.0"	31.8"	38.7"	37.1"	25.0"	0.0
VELOCITY (fps)	2600	2369	2151	1944	1750	1571	1410
ENERGY (ft.-lbs.)	3752	3116	2567	2097	1699	1369	1103
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-17.0"	-38.4"	-71.3"	-118.4"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-9.9"	-29.0"	-59.6"	-104.3"
TRAJ: 300 yds. zero	-1.5"	5.7"	6.6"	0.0	-15.8"	-43.1"	-84.5"
TRAJ: 400 yds. zero	-1.5"	9.6"	14.5"	11.9"	0.0	-23.3"	-60.8"
TRAJ: 500 yds. zero	-1.5"	14.3"	23.8"	25.8"	18.6"	0.0	-32.8"
TRAJ: 600 yds. zero	-1.5"	19.7"	34.8"	42.3"	40.5"	27.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2500	2274	2061	1859	1671	1499	1347
ENERGY (ft.-lbs.)	3469	2871	2357	1918	1550	1248	1007
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-18.7"	-42.2"	-78.3"	-129.9"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.8"	-31.8"	-65.2"	-114.2"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.2"	0.0	-17.3"	-47.2"	-92.6"
TRAJ: 400 yds. zero	-1.5"	10.6"	15.9"	13.0"	0.0	-25.5"	-66.6"
TRAJ: 500 yds. zero	-1.5"	15.7"	26.1"	28.3"	20.4"	0.0	-36.0"
TRAJ: 600 yds. zero	-1.5"	21.7"	38.1"	46.3"	44.4"	30.0"	0.0
VELOCITY (fps)	2400	2180	1971	1775	1594	1430	1288
ENERGY (ft.-lbs.)	3197	2637	2156	1749	1410	1135	920
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-20.7"	-46.6"	-86.2"	-143.0"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.9"	-34.9"	-71.6"	-125.5"
TRAJ: 300 yds. zero	-1.5"	6.9"	7.9"	0.0	-19.0"	-51.8"	-101.7"
TRAJ: 400 yds. zero	-1.5"	11.6"	17.4"	14.3"	0.0	-28.0"	-73.1"
TRAJ: 500 yds. zero	-1.5"	17.2"	28.6"	31.1"	22.4"	0.0	-39.5"
TRAJ: 600 yds. zero	-1.5"	23.8"	41.8"	50.8"	48.8"	32.9"	0.0
VELOCITY (fps)	2300	2085	1882	1692	1518	1364	1232
ENERGY (ft.-lbs.)	2936	2412	1965	1589	1280	1032	842
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-22.9"	-51.5"	-95.2"	-157.8"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-13.1"	-38.4"	-78.9"	-138.2"
TRAJ: 300 yds. zero	-1.5"	7.6"	8.7"	0.0	-20.9"	-57.0"	-112.0"
TRAJ: 400 yds. zero	-1.5"	12.9"	19.2"	15.7"	0.0	-30.9"	-80.5"
TRAJ: 500 yds. zero	-1.5"	19.0"	31.6"	34.2"	24.7"	0.0	-43.5"
TRAJ: 600 yds. zero	-1.5"	26.3"	46.1"	56.0"	53.7"	36.3"	0.0
VELOCITY (fps)	2200	1990	1793	1610	1445	1300	1181
ENERGY (ft.-lbs.)	2686	2198	1785	1440	1159	938	774
TRAJ: 100 yds. zero	-1.5"	0.0	-7.3"	-25.5"	-57.1"	-105.4"	-174.5"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-14.5"	-42.5"	-87.2"	-152.6"
TRAJ: 300 yds. zero	-1.5"	8.5"	9.7"	0.0	-23.1"	-63.0"	-123.6"
TRAJ: 400 yds. zero	-1.5"	14.3"	21.2"	17.4"	0.0	-34.1"	-88.9"
TRAJ: 500 yds. zero	-1.5"	21.1"	34.9"	37.8"	27.3"	0.0	-48.0"
TRAJ: 600 yds. zero	-1.5"	29.1"	50.9"	61.8"	59.2"	40.0"	0.0
VELOCITY (fps)	2100	1896	1705	1530	1374	1241	1134
ENERGY (ft.-lbs.)	2448	1995	1614	1300	1048	854	714
TRAJ: 100 yds. zero	-1.5"	0.0	-8.2"	-28.4"	-63.5"	-117.1"	-193.4"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-16.1"	-47.1"	-96.6"	-168.8"
TRAJ: 300 yds. zero	-1.5"	9.5"	10.7"	0.0	-25.6"	-69.8"	-136.6"
TRAJ: 400 yds. zero	-1.5"	15.9"	23.6"	19.2"	0.0	-37.7"	-98.2"
TRAJ: 500 yds. zero	-1.5"	23.4"	38.6"	41.9"	30.2"	0.0	-52.9"
TRAJ: 600 yds. zero	-1.5"	32.2"	56.3"	68.3"	65.4"	44.1"	0.0
VELOCITY (fps)	2000	1802	1619	1453	1307	1186	1093
ENERGY (ft.-lbs.)	2220	1803	1455	1171	948	780	663
TRAJ: 100 yds. zero	-1.5"	0.0	-9.2"	-31.8"	-70.9"	-130.4"	-214.8"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-17.9"	-52.4"	-107.3"	-187.0"
TRAJ: 300 yds. zero	-1.5"	10.6"	12.0"	0.0	-28.5"	-77.5"	-151.2"
TRAJ: 400 yds. zero	-1.5"	17.7"	26.2"	21.4"	0.0	-41.8"	-108.4"
TRAJ: 500 yds. zero	-1.5"	26.1"	42.9"	46.5"	33.5"	0.0	-58.2"
TRAJ: 600 yds. zero	-1.5"	35.8"	62.3"	75.6"	72.3"	48.5"	0.0
VELOCITY (fps)	1900	1709	1534	1377	1243	1136	1056
ENERGY (ft.-lbs.)	2004	1621	1306	1053	858	716	619
TRAJ: 100 yds. zero	-1.5"	0.0	-10.4"	-35.7"	-79.4"	-145.6"	-238.7"
TRAJ: 200 yds. zero	-1.5"	5.2"	0.0	-20.1"	-58.5"	-119.5"	-207.3"
TRAJ: 300 yds. zero	-1.5"	11.9"	13.4"	0.0	-31.8"	-86.1"	-167.2"
TRAJ: 400 yds. zero	-1.5"	19.8"	29.2"	23.8"	0.0	-46.4"	-119.6"
TRAJ: 500 yds. zero	-1.5"	29.1"	47.8"	51.7"	37.1"	0.0	-63.9"
TRAJ: 600 yds. zero	-1.5"	39.8"	69.1"	83.6"	79.7"	53.3"	0.0
VELOCITY (fps)	1800	1617	1451	1305	1184	1092	1023
ENERGY (ft.-lbs.)	1798	1451	1168	945	779	661	581
TRAJ: 100 yds. zero	-1.5"	0.0	-11.8"	-40.3"	-89.1"	-162.8"	-265.3"
TRAJ: 200 yds. zero	-1.5"	5.9"	0.0	-22.5"	-65.5"	-133.2"	-229.7"
TRAJ: 300 yds. zero	-1.5"	13.4"	15.0"	0.0	-35.5"	-95.7"	-184.8"
TRAJ: 400 yds. zero	-1.5"	22.3"	32.7"	26.6"	0.0	-51.4"	-131.6"
TRAJ: 500 yds. zero	-1.5"	32.6"	53.3"	57.4"	41.1"	0.0	-69.9"
TRAJ: 600 yds. zero	-1.5"	44.2"	76.6"	92.4"	87.7"	58.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1526	1370	1237	1131	1052	993
ENERGY (ft.-lbs.)	1604	1292	1042	849	710	615	547
TRAJ: 100 yds. zero	-1.5"	0.0	-13.5"	-45.5"	-100.4"	-182.2"	-294.7"
TRAJ: 200 yds. zero	-1.5"	6.7"	0.0	-25.3"	-73.4"	-148.5"	-254.3"
TRAJ: 300 yds. zero	-1.5"	15.2"	16.9"	0.0	-39.6"	-106.3"	-203.6"
TRAJ: 400 yds. zero	-1.5"	25.1"	36.7"	29.7"	0.0	-56.7"	-144.2"
TRAJ: 500 yds. zero	-1.5"	36.4"	59.4"	63.8"	45.4"	0.0	-76.1"
TRAJ: 600 yds. zero	-1.5"	49.1"	84.8"	101.8"	96.1"	63.4"	0.0
VELOCITY (fps)	1600	1436	1292	1174	1084	1017	965
ENERGY (ft.-lbs.)	1421	1144	927	765	652	574	516
TRAJ: 100 yds. zero	-1.5"	0.0	-15.4"	-51.7"	-113.1"	-203.8"	-327.1"
TRAJ: 200 yds. zero	-1.5"	7.7"	0.0	-28.6"	-82.3"	-165.3"	-280.9"
TRAJ: 300 yds. zero	-1.5"	17.2"	19.0"	0.0	-44.2"	-117.7"	-223.8"
TRAJ: 400 yds. zero	-1.5"	28.3"	41.2"	33.2"	0.0	-62.4"	-157.4"
TRAJ: 500 yds. zero	-1.5"	40.8"	66.1"	70.6"	49.9"	0.0	-82.5"
TRAJ: 600 yds. zero	-1.5"	54.5"	93.6"	111.9"	104.9"	68.8"	0.0
VELOCITY (fps)	1500	1348	1219	1117	1042	985	938
ENERGY (ft.-lbs.)	1249	1008	824	693	603	538	488
TRAJ: 100 yds. zero	-1.5"	0.0	-17.7"	-58.8"	-127.5"	-227.8"	-362.7"
TRAJ: 200 yds. zero	-1.5"	8.8"	0.0	-32.2"	-92.2"	-183.6"	-309.6"
TRAJ: 300 yds. zero	-1.5"	19.6"	21.5"	0.0	-49.2"	-129.9"	-245.1"
TRAJ: 400 yds. zero	-1.5"	31.9"	46.1"	36.9"	0.0	-68.4"	-171.4"
TRAJ: 500 yds. zero	-1.5"	45.6"	73.4"	77.9"	54.7"	0.0	-89.3"
TRAJ: 600 yds. zero	-1.5"	60.4"	103.2"	122.6"	114.2"	74.4"	0.0
VELOCITY (fps)	1400	1262	1151	1067	1004	954	911
ENERGY (ft.-lbs.)	1088	884	735	631	559	505	461
TRAJ: 100 yds. zero	-1.5"	0.0	-20.3"	-66.9"	-143.7"	-254.3"	-401.8"
TRAJ: 200 yds. zero	-1.5"	10.2"	0.0	-36.4"	-103.0"	-203.4"	-340.8"
TRAJ: 300 yds. zero	-1.5"	22.3"	24.2"	0.0	-54.5"	-142.8"	-268.1"
TRAJ: 400 yds. zero	-1.5"	35.9"	51.5"	40.9"	0.0	-74.7"	-186.3"
TRAJ: 500 yds. zero	-1.5"	50.9"	81.4"	85.7"	59.7"	0.0	-96.7"
TRAJ: 600 yds. zero	-1.5"	67.0"	113.6"	134.0"	124.2"	80.6"	0.0
VELOCITY (fps)	1300	1180	1089	1020	967	923	885
ENERGY (ft.-lbs.)	938	773	658	578	519	473	435
TRAJ: 100 yds. zero	-1.5"	0.0	-23.4"	-76.0"	-161.7"	-283.7"	-445.4"
TRAJ: 200 yds. zero	-1.5"	11.7"	0.0	-40.9"	-114.8"	-225.1"	-375.1"
TRAJ: 300 yds. zero	-1.5"	25.3"	27.3"	0.0	-60.3"	-157.0"	-293.3"
TRAJ: 400 yds. zero	-1.5"	40.4"	57.4"	45.2"	0.0	-81.6"	-202.9"
TRAJ: 500 yds. zero	-1.5"	56.7"	90.0"	94.2"	65.3"	0.0	-104.9"
TRAJ: 600 yds. zero	-1.5"	74.2"	125.0"	146.6"	135.2"	87.5"	0.0
VELOCITY (fps)	1200	1103	1032	976	931	891	857
ENERGY (ft.-lbs.)	799	676	591	529	481	441	407
TRAJ: 100 yds. zero	-1.5"	0.0	-27.0"	-86.5"	-182.0"	-317.1"	-495.0"
TRAJ: 200 yds. zero	-1.5"	13.5"	0.0	-46.0"	-128.1"	-249.6"	-414.1"
TRAJ: 300 yds. zero	-1.5"	28.8"	30.7"	0.0	-66.7"	-173.0"	-322.1"
TRAJ: 400 yds. zero	-1.5"	45.5"	64.0"	50.0"	0.0	-89.6"	-222.0"
TRAJ: 500 yds. zero	-1.5"	63.4"	99.9"	103.8"	71.7"	0.0	-114.5"
TRAJ: 600 yds. zero	-1.5"	82.5"	138.0"	161.0"	148.0"	95.4"	0.0

35 CALIBER (.358" Dia.) 250 GRAIN ROUND NOSE SECTIONAL DENSITY: .279 BALLISTIC COEFFICIENT: .271

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2800	2470	2163	1879	1621	1396	1213
ENERGY (ft.-lbs.)	4351	3386	2597	1959	1458	1081	816
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.9"	-37.6"	-72.6"	-125.7"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.6"	-29.1"	-62.0"	-113.0"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.4"	0.0	-16.3"	-46.0"	-93.8"
TRAJ: 400 yds. zero	-1.5"	9.4"	14.6"	12.2"	0.0	-25.6"	-69.3"
TRAJ: 500 yds. zero	-1.5"	14.5"	24.8"	27.6"	20.5"	0.0	-38.6"
TRAJ: 600 yds. zero	-1.5"	20.9"	37.7"	46.9"	46.2"	32.1"	0.0
VELOCITY (fps)	2700	2377	2077	1800	1551	1337	1168
ENERGY (ft.-lbs.)	4046	3136	2394	1798	1335	992	758
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-17.5"	-41.1"	-79.4"	-137.3"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.5"	-31.8"	-67.7"	-123.2"
TRAJ: 300 yds. zero	-1.5"	5.8"	7.0"	0.0	-17.8"	-50.2"	-102.3"
TRAJ: 400 yds. zero	-1.5"	10.3"	15.9"	13.4"	0.0	-28.0"	-75.6"
TRAJ: 500 yds. zero	-1.5"	15.9"	27.1"	30.1"	22.4"	0.0	-42.1"
TRAJ: 600 yds. zero	-1.5"	22.9"	41.1"	51.2"	50.4"	35.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2600	2284	1991	1721	1482	1281	1128
ENERGY (ft.-lbs.)	3752	2895	2199	1645	1219	910	706
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-19.3"	-45.1"	-87.0"	-150.3"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.4"	-34.7"	-74.0"	-134.7"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.6"	0.0	-19.5"	-54.9"	-111.8"
TRAJ: 400 yds. zero	-1.5"	11.3"	17.4"	14.6"	0.0	-30.6"	-82.6"
TRAJ: 500 yds. zero	-1.5"	17.4"	29.6"	33.0"	24.5"	0.0	-45.9"
TRAJ: 600 yds. zero	-1.5"	25.1"	44.9"	55.9"	55.1"	38.3"	0.0
VELOCITY (fps)	2500	2191	1905	1644	1415	1228	1092
ENERGY (ft.-lbs.)	3469	2664	2014	1500	1112	837	662
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-21.2"	-49.7"	-95.6"	-164.8"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.6"	-38.1"	-81.2"	-147.5"
TRAJ: 300 yds. zero	-1.5"	7.1"	8.4"	0.0	-21.3"	-60.2"	-122.3"
TRAJ: 400 yds. zero	-1.5"	12.4"	19.0"	16.0"	0.0	-33.6"	-90.3"
TRAJ: 500 yds. zero	-1.5"	19.1"	32.5"	36.1"	26.8"	0.0	-50.1"
TRAJ: 600 yds. zero	-1.5"	27.5"	49.2"	61.2"	60.2"	41.7"	0.0
VELOCITY (fps)	2400	2098	1819	1568	1351	1179	1059
ENERGY (ft.-lbs.)	3197	2443	1837	1365	1013	772	623
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-23.5"	-54.8"	-105.3"	-180.9"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.8"	-41.9"	-89.2"	-161.5"
TRAJ: 300 yds. zero	-1.5"	7.8"	9.2"	0.0	-23.5"	-66.2"	-133.9"
TRAJ: 400 yds. zero	-1.5"	13.7"	20.9"	17.6"	0.0	-36.8"	-98.7"
TRAJ: 500 yds. zero	-1.5"	21.1"	35.7"	39.7"	29.5"	0.0	-54.5"
TRAJ: 600 yds. zero	-1.5"	30.1"	53.8"	67.0"	65.8"	45.4"	0.0
VELOCITY (fps)	2300	2005	1735	1494	1290	1135	1030
ENERGY (ft.-lbs.)	2936	2232	1671	1238	924	715	589
TRAJ: 100 yds. zero	-1.5"	0.0	-7.2"	-26.1"	-60.6"	-116.3"	-198.7"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-15.2"	-46.2"	-98.3"	-177.0"
TRAJ: 300 yds. zero	-1.5"	8.7"	10.2"	0.0	-25.9"	-72.8"	-146.5"
TRAJ: 400 yds. zero	-1.5"	15.2"	23.1"	19.4"	0.0	-40.5"	-107.7"
TRAJ: 500 yds. zero	-1.5"	23.3"	39.3"	43.7"	32.4"	0.0	-59.1"
TRAJ: 600 yds. zero	-1.5"	33.1"	59.0"	73.3"	71.8"	49.3"	0.0
VELOCITY (fps)	2200	1913	1652	1422	1233	1095	1003
ENERGY (ft.-lbs.)	2686	2031	1514	1122	844	666	559
TRAJ: 100 yds. zero	-1.5"	0.0	-8.1"	-29.0"	-67.3"	-128.5"	-218.2"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-16.9"	-51.1"	-108.3"	-194.0"
TRAJ: 300 yds. zero	-1.5"	9.7"	11.3"	0.0	-28.6"	-80.2"	-160.2"
TRAJ: 400 yds. zero	-1.5"	16.8"	25.6"	21.5"	0.0	-44.4"	-117.3"
TRAJ: 500 yds. zero	-1.5"	25.7"	43.3"	48.1"	35.6"	0.0	-63.9"
TRAJ: 600 yds. zero	-1.5"	36.4"	64.7"	80.1"	78.2"	53.3"	0.0
VELOCITY (fps)	2100	1821	1570	1352	1180	1060	979
ENERGY (ft.-lbs.)	2448	1841	1367	1015	773	624	531
TRAJ: 100 yds. zero	-1.5"	0.0	-9.1"	-32.3"	-74.8"	-142.2"	-239.5"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-18.8"	-56.6"	-119.5"	-212.3"
TRAJ: 300 yds. zero	-1.5"	10.8"	12.5"	0.0	-31.6"	-88.3"	-174.8"
TRAJ: 400 yds. zero	-1.5"	18.7"	28.3"	23.7"	0.0	-48.7"	-127.3"
TRAJ: 500 yds. zero	-1.5"	28.4"	47.8"	53.0"	39.0"	0.0	-68.9"
TRAJ: 600 yds. zero	-1.5"	39.9"	70.8"	87.4"	84.9"	57.4"	0.0
VELOCITY (fps)	2000	1730	1490	1287	1132	1028	955
ENERGY (ft.-lbs.)	2220	1661	1231	919	712	587	507
TRAJ: 100 yds. zero	-1.5"	0.0	-10.2"	-36.2"	-83.3"	-157.3"	-262.7"
TRAJ: 200 yds. zero	-1.5"	5.1"	0.0	-20.9"	-62.9"	-131.8"	-232.1"
TRAJ: 300 yds. zero	-1.5"	12.1"	13.9"	0.0	-35.0"	-97.0"	-190.3"
TRAJ: 400 yds. zero	-1.5"	20.8"	31.4"	26.3"	0.0	-53.2"	-137.8"
TRAJ: 500 yds. zero	-1.5"	31.5"	52.7"	58.2"	42.5"	0.0	-74.0"
TRAJ: 600 yds. zero	-1.5"	43.8"	77.4"	95.2"	91.8"	61.6"	0.0
VELOCITY (fps)	1900	1640	1412	1225	1090	1000	934
ENERGY (ft.-lbs.)	2004	1493	1106	833	659	555	484
TRAJ: 100 yds. zero	-1.5"	0.0	-11.5"	-40.6"	-92.9"	-173.9"	-287.9"
TRAJ: 200 yds. zero	-1.5"	5.8"	0.0	-23.3"	-69.9"	-145.1"	-253.4"
TRAJ: 300 yds. zero	-1.5"	13.5"	15.5"	0.0	-38.8"	-106.3"	-206.7"
TRAJ: 400 yds. zero	-1.5"	23.2"	34.9"	29.1"	0.0	-57.8"	-148.6"
TRAJ: 500 yds. zero	-1.5"	34.8"	58.1"	63.8"	46.2"	0.0	-79.2"
TRAJ: 600 yds. zero	-1.5"	48.0"	84.5"	103.4"	99.1"	66.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1800	1551	1337	1189	1052	973	913
ENERGY (ft.-lbs.)	1798	1335	992	758	615	526	462
TRAJ: 100 yds. zero	-1.5"	0.0	-13.1"	-45.7"	-103.7"	-192.2"	-315.3"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-26.1"	-77.6"	-159.6"	-276.2"
TRAJ: 300 yds. zero	-1.5"	15.2"	17.4"	0.0	-42.8"	-116.1"	-224.0"
TRAJ: 400 yds. zero	-1.5"	25.9"	38.8"	32.1"	0.0	-62.6"	-159.8"
TRAJ: 500 yds. zero	-1.5"	38.4"	63.8"	69.7"	50.1"	0.0	-84.7"
TRAJ: 600 yds. zero	-1.5"	52.6"	92.1"	112.0"	106.5"	70.6"	0.0
VELOCITY (fps)	1700	1463	1266	1118	1019	948	892
ENERGY (ft.-lbs.)	1604	1189	889	693	576	499	442
TRAJ: 100 yds. zero	-1.5"	0.0	-14.8"	-51.4"	-115.6"	-212.1"	-345.0"
TRAJ: 200 yds. zero	-1.5"	7.4"	0.0	-29.2"	-85.9"	-175.0"	-300.5"
TRAJ: 300 yds. zero	-1.5"	17.1"	19.5"	0.0	-47.0"	-126.4"	-242.1"
TRAJ: 400 yds. zero	-1.5"	28.9"	43.0"	35.3"	0.0	-67.6"	-171.6"
TRAJ: 500 yds. zero	-1.5"	42.4"	70.0"	75.8"	54.1"	0.0	-90.5"
TRAJ: 600 yds. zero	-1.5"	57.5"	100.2"	121.1"	114.4"	75.4"	0.0
VELOCITY (fps)	1600	1378	1199	1073	988	924	872
ENERGY (ft.-lbs.)	1421	1054	798	639	541	474	422
TRAJ: 100 yds. zero	-1.5"	0.0	-16.9"	-58.0"	-128.8"	-233.8"	-377.2"
TRAJ: 200 yds. zero	-1.5"	8.4"	0.0	-32.6"	-95.0"	-191.5"	-326.5"
TRAJ: 300 yds. zero	-1.5"	19.3"	21.7"	0.0	-51.5"	-137.2"	-261.2"
TRAJ: 400 yds. zero	-1.5"	32.2"	47.5"	38.6"	0.0	-72.8"	-184.0"
TRAJ: 500 yds. zero	-1.5"	46.8"	76.6"	82.3"	58.3"	0.0	-96.6"
TRAJ: 600 yds. zero	-1.5"	62.9"	108.8"	130.6"	122.7"	80.5"	0.0
VELOCITY (fps)	1500	1295	1138	1032	958	901	852
ENERGY (ft.-lbs.)	1249	931	719	592	510	450	403
TRAJ: 100 yds. zero	-1.5"	0.0	-19.3"	-65.3"	-143.2"	-257.4"	-412.2"
TRAJ: 200 yds. zero	-1.5"	9.6"	0.0	-36.3"	-104.6"	-209.2"	-354.3"
TRAJ: 300 yds. zero	-1.5"	21.8"	24.2"	0.0	-56.1"	-148.6"	-281.7"
TRAJ: 400 yds. zero	-1.5"	35.8"	52.3"	42.1"	0.0	-78.4"	-197.4"
TRAJ: 500 yds. zero	-1.5"	51.5"	83.7"	89.2"	62.7"	0.0	-103.3"
TRAJ: 600 yds. zero	-1.5"	68.7"	118.1"	140.8"	131.6"	86.1"	0.0
VELOCITY (fps)	1400	1216	1084	995	930	877	831
ENERGY (ft.-lbs.)	1088	821	652	550	480	427	384
TRAJ: 100 yds. zero	-1.5"	0.0	-22.0"	-73.4"	-158.9"	-283.2"	-450.5"
TRAJ: 200 yds. zero	-1.5"	11.0"	0.0	-40.3"	-114.9"	-228.2"	-384.5"
TRAJ: 300 yds. zero	-1.5"	24.5"	26.9"	0.0	-61.1"	-161.0"	-303.8"
TRAJ: 400 yds. zero	-1.5"	39.7"	57.4"	45.8"	0.0	-84.6"	-212.1"
TRAJ: 500 yds. zero	-1.5"	56.6"	91.3"	96.6"	67.7"	0.0	-110.7"
TRAJ: 600 yds. zero	-1.5"	75.1"	128.2"	151.9"	141.4"	92.2"	0.0
VELOCITY (fps)	1300	1142	1035	960	902	853	810
ENERGY (ft.-lbs.)	938	724	594	512	452	404	364
TRAJ: 100 yds. zero	-1.5"	0.0	-25.1"	-82.3"	-176.4"	-311.9"	-493.2"
TRAJ: 200 yds. zero	-1.5"	12.5"	0.0	-44.6"	-126.2"	-249.1"	-417.9"
TRAJ: 300 yds. zero	-1.5"	27.4"	29.8"	0.0	-66.7"	-174.7"	-328.6"
TRAJ: 400 yds. zero	-1.5"	44.1"	63.1"	50.0"	0.0	-91.4"	-228.6"
TRAJ: 500 yds. zero	-1.5"	62.4"	99.7"	104.8"	73.1"	0.0	-118.9"
TRAJ: 600 yds. zero	-1.5"	82.2"	139.3"	164.3"	152.4"	99.1"	0.0
VELOCITY (fps)	1200	1073	988	924	872	827	787
ENERGY (ft.-lbs.)	799	639	542	474	422	380	343
TRAJ: 100 yds. zero	-1.5"	0.0	-28.5"	-92.4"	-196.2"	-344.6"	-542.4"
TRAJ: 200 yds. zero	-1.5"	14.3"	0.0	-49.5"	-139.1"	-273.2"	-456.7"
TRAJ: 300 yds. zero	-1.5"	30.8"	33.0"	0.0	-73.0"	-190.7"	-357.6"
TRAJ: 400 yds. zero	-1.5"	49.0"	69.5"	54.8"	0.0	-99.4"	-248.1"
TRAJ: 500 yds. zero	-1.5"	68.9"	109.3"	114.4"	79.5"	0.0	-128.9"
TRAJ: 600 yds. zero	-1.5"	90.4"	152.2"	178.8"	165.4"	107.4"	0.0

375 CALIBER (.375" Dia.) 220 GRAIN FLAT POINT
SECTIONAL DENSITY: .223 BALLISTIC COEFFICIENT: .217

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2300	2113	1936	1768	1611	1467	1338
ENERGY (ft.-lbs.)	2584	2181	1830	1526	1267	1051	874
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.2"	-8.8"	-17.7"	-30.7"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.6"	-7.9"	-16.6"	-29.4"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.7"	0.0	-4.5"	-12.3"	-24.3"
TRAJ: 200 yds. zero	-1.5"	2.2"	3.9"	3.4"	0.0	-6.7"	-17.5"
TRAJ: 250 yds. zero	-1.5"	3.5"	6.6"	7.4"	5.4"	0.0	-9.4"
TRAJ: 300 yds. zero	-1.5"	5.1"	9.8"	12.1"	11.7"	7.9"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2200	2018	1845	1683	1533	1396	1276
ENERGY (ft.-lbs.)	2364	1989	1663	1384	1147	952	795
TRAJ: 50 yds. zero	-1.5"	0.0	-0.6"	-3.8"	-10.1"	-20.1"	-34.6"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.9"	-8.8"	-18.5"	-32.7"
TRAJ: 150 yds. zero	-1.5"	1.3"	1.9"	0.0	-5.0"	-13.7"	-26.9"
TRAJ: 200 yds. zero	-1.5"	2.5"	4.4"	3.7"	0.0	-7.5"	-19.4"
TRAJ: 250 yds. zero	-1.5"	4.0"	7.4"	8.2"	6.0"	0.0	-10.4"
TRAJ: 300 yds. zero	-1.5"	5.8"	10.9"	13.4"	12.9"	8.7"	0.0
VELOCITY (fps)	2100	1923	1756	1600	1457	1329	1219
ENERGY (ft.-lbs.)	2154	1806	1506	1250	1036	862	726
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-4.5"	-11.6"	-22.8"	-39.0"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.3"	-9.9"	-20.7"	-36.4"
TRAJ: 150 yds. zero	-1.5"	1.5"	2.2"	0.0	-5.6"	-15.3"	-29.9"
TRAJ: 200 yds. zero	-1.5"	2.9"	5.0"	4.2"	0.0	-8.3"	-21.5"
TRAJ: 250 yds. zero	-1.5"	4.6"	8.3"	9.2"	6.6"	0.0	-11.6"
TRAJ: 300 yds. zero	-1.5"	6.5"	12.1"	14.9"	14.4"	9.7"	0.0
VELOCITY (fps)	2000	1828	1667	1518	1383	1265	1166
ENERGY (ft.-lbs.)	1954	1633	1358	1126	934	782	664
TRAJ: 50 yds. zero	-1.5"	0.0	-1.1"	-5.3"	-13.4"	-26.0"	-44.0"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.7"	-11.2"	-23.2"	-40.7"
TRAJ: 150 yds. zero	-1.5"	1.8"	2.5"	0.0	-6.2"	-17.0"	-33.3"
TRAJ: 200 yds. zero	-1.5"	3.3"	5.6"	4.7"	0.0	-9.2"	-23.9"
TRAJ: 250 yds. zero	-1.5"	5.2"	9.3"	10.2"	7.4"	0.0	-12.8"
TRAJ: 300 yds. zero	-1.5"	7.3"	13.6"	16.6"	16.0"	10.7"	0.0
VELOCITY (fps)	1900	1734	1580	1439	1313	1206	1119
ENERGY (ft.-lbs.)	1763	1469	1219	1011	842	710	612
TRAJ: 50 yds. zero	-1.5"	0.0	-1.4"	-6.3"	-15.4"	-29.5"	-49.7"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.2"	-12.6"	-26.1"	-45.5"
TRAJ: 150 yds. zero	-1.5"	2.1"	2.8"	0.0	-7.0"	-19.1"	-37.1"
TRAJ: 200 yds. zero	-1.5"	3.8"	6.3"	5.3"	0.0	-10.3"	-26.6"
TRAJ: 250 yds. zero	-1.5"	5.9"	10.4"	11.4"	8.3"	0.0	-14.2"
TRAJ: 300 yds. zero	-1.5"	8.3"	15.2"	18.6"	17.7"	11.9"	0.0
VELOCITY (fps)	1800	1641	1494	1362	1247	1152	1077
ENERGY (ft.-lbs.)	1582	1315	1090	906	759	648	567
TRAJ: 50 yds. zero	-1.5"	0.0	-1.7"	-7.4"	-17.7"	-33.7"	-56.1"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-4.8"	-14.2"	-29.3"	-50.9"
TRAJ: 150 yds. zero	-1.5"	2.5"	3.2"	0.0	-7.9"	-21.4"	-41.4"
TRAJ: 200 yds. zero	-1.5"	4.4"	7.1"	5.9"	0.0	-11.5"	-29.6"
TRAJ: 250 yds. zero	-1.5"	6.7"	11.7"	12.8"	9.2"	0.0	-15.8"
TRAJ: 300 yds. zero	-1.5"	9.4"	17.0"	20.7"	19.7"	13.1"	0.0
VELOCITY (fps)	1700	1548	1410	1288	1185	1103	1040
ENERGY (ft.-lbs.)	1412	1171	971	811	686	595	528
TRAJ: 50 yds. zero	-1.5"	0.0	-2.1"	-8.6"	-20.4"	-38.4"	-63.4"
TRAJ: 100 yds. zero	-1.5"	1.1"	0.0	-5.4"	-16.1"	-33.0"	-57.0"
TRAJ: 150 yds. zero	-1.5"	2.9"	3.6"	0.0	-8.9"	-23.9"	-46.1"
TRAJ: 200 yds. zero	-1.5"	5.1"	8.1"	6.7"	0.0	-12.8"	-32.8"
TRAJ: 250 yds. zero	-1.5"	7.7"	13.2"	14.4"	10.3"	0.0	-17.3"
TRAJ: 300 yds. zero	-1.5"	10.6"	19.0"	23.0"	21.8"	14.5"	0.0
VELOCITY (fps)	1600	1457	1329	1219	1130	1061	1007
ENERGY (ft.-lbs.)	1250	1037	863	726	623	549	495
TRAJ: 50 yds. zero	-1.5"	0.0	-2.6"	-10.1"	-23.5"	-43.7"	-71.4"
TRAJ: 100 yds. zero	-1.5"	1.3"	0.0	-6.2"	-18.3"	-37.2"	-63.6"
TRAJ: 150 yds. zero	-1.5"	3.4"	4.2"	0.0	-10.0"	-26.8"	-51.2"
TRAJ: 200 yds. zero	-1.5"	5.9"	9.2"	7.5"	0.0	-14.3"	-36.2"
TRAJ: 250 yds. zero	-1.5"	8.7"	14.9"	16.1"	11.4"	0.0	-19.0"
TRAJ: 300 yds. zero	-1.5"	11.9"	21.2"	25.6"	24.1"	15.9"	0.0
VELOCITY (fps)	1500	1367	1251	1155	1080	1022	975
ENERGY (ft.-lbs.)	1099	913	765	652	570	510	465
TRAJ: 50 yds. zero	-1.5"	0.0	-3.2"	-11.9"	-27.1"	-49.7"	-80.4"
TRAJ: 100 yds. zero	-1.5"	1.6"	0.0	-7.1"	-20.8"	-41.8"	-70.9"
TRAJ: 150 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.3"	-29.9"	-56.7"
TRAJ: 200 yds. zero	-1.5"	6.8"	10.4"	8.4"	0.0	-15.8"	-39.8"
TRAJ: 250 yds. zero	-1.5"	9.9"	16.7"	17.9"	12.7"	0.0	-20.8"
TRAJ: 300 yds. zero	-1.5"	13.4"	23.6"	28.3"	26.5"	17.3"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1400	1279	1178	1098	1036	987	945
ENERGY (ft.-lbs.)	957	800	678	589	524	475	437
TRAJ: 50 yds. zero	-1.5"	0.0	-3.8"	-13.9"	-31.1"	-56.3"	-80.3"
TRAJ: 100 yds. zero	-1.5"	1.9"	0.0	-8.2"	-23.5"	-46.8"	-78.8"
TRAJ: 150 yds. zero	-1.5"	4.6"	5.4"	0.0	-12.6"	-33.2"	-62.5"
TRAJ: 200 yds. zero	-1.5"	7.8"	11.7"	9.5"	0.0	-17.4"	-43.6"
TRAJ: 250 yds. zero	-1.5"	11.3"	18.7"	19.9"	14.0"	0.0	-22.7"
TRAJ: 300 yds. zero	-1.5"	15.0"	26.3"	31.3"	29.1"	18.9"	0.0
VELOCITY (fps)	1300	1195	1111	1046	995	952	916
ENERGY (ft.-lbs.)	825	697	603	534	483	443	410
TRAJ: 50 yds. zero	-1.5"	0.0	-4.6"	-16.2"	-35.7"	-63.8"	-101.3"
TRAJ: 100 yds. zero	-1.5"	2.3"	0.0	-9.3"	-26.5"	-52.3"	-87.5"
TRAJ: 150 yds. zero	-1.5"	5.4"	6.2"	0.0	-14.1"	-36.8"	-68.9"
TRAJ: 200 yds. zero	-1.5"	8.9"	13.3"	10.6"	0.0	-19.2"	-47.8"
TRAJ: 250 yds. zero	-1.5"	12.8"	20.9"	22.1"	15.4"	0.0	-24.7"
TRAJ: 300 yds. zero	-1.5"	16.9"	29.2"	34.5"	31.9"	20.6"	0.0
VELOCITY (fps)	1200	1115	1049	997	955	918	885
ENERGY (ft.-lbs.)	703	607	537	486	445	411	382
TRAJ: 50 yds. zero	-1.5"	0.0	-5.5"	-18.8"	-40.8"	-72.3"	-113.8"
TRAJ: 100 yds. zero	-1.5"	2.7"	0.0	-10.6"	-29.9"	-58.6"	-97.4"
TRAJ: 150 yds. zero	-1.5"	6.3"	7.1"	0.0	-15.7"	-40.9"	-76.2"
TRAJ: 200 yds. zero	-1.5"	10.2"	14.9"	11.8"	0.0	-21.2"	-52.6"
TRAJ: 250 yds. zero	-1.5"	14.5"	23.4"	24.5"	17.0"	0.0	-27.1"
TRAJ: 300 yds. zero	-1.5"	19.0"	32.5"	38.1"	35.1"	22.6"	0.0
VELOCITY (fps)	1100	1038	988	947	911	878	849
ENERGY (ft.-lbs.)	591	526	477	438	405	377	352
TRAJ: 50 yds. zero	-1.5"	0.0	-6.6"	-22.0"	-47.1"	-82.5"	-129.1"
TRAJ: 100 yds. zero	-1.5"	3.3"	0.0	-12.2"	-33.9"	-66.1"	-109.5"
TRAJ: 150 yds. zero	-1.5"	7.3"	8.1"	0.0	-17.7"	-45.9"	-85.2"
TRAJ: 200 yds. zero	-1.5"	11.8"	17.0"	13.3"	0.0	-23.7"	-58.5"
TRAJ: 250 yds. zero	-1.5"	16.5"	26.5"	27.5"	19.0"	0.0	-30.1"
TRAJ: 300 yds. zero	-1.5"	21.5"	36.5"	42.6"	39.0"	25.1"	0.0
VELOCITY (fps)	1000	957	920	887	857	829	803
ENERGY (ft.-lbs.)	488	447	413	384	358	336	315
TRAJ: 50 yds. zero	-1.5"	0.0	-8.0"	-26.2"	-55.5"	-96.5"	-150.2"
TRAJ: 100 yds. zero	-1.5"	4.0"	0.0	-14.3"	-39.5"	-76.6"	-126.3"
TRAJ: 150 yds. zero	-1.5"	8.7"	9.5"	0.0	-20.5"	-52.8"	-97.8"
TRAJ: 200 yds. zero	-1.5"	13.9"	19.8"	15.4"	0.0	-27.2"	-67.0"
TRAJ: 250 yds. zero	-1.5"	19.3"	30.6"	31.7"	21.7"	0.0	-34.4"
TRAJ: 300 yds. zero	-1.5"	25.0"	42.1"	48.9"	44.6"	28.6"	0.0

375 CALIBER (.375" Dia.) 270 GRAIN SPIRE POINT
SECTIONAL DENSITY: .274 BALLISTIC COEFFICIENT: .380

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2846	2605	2377	2161	1956	1764
ENERGY (ft.-lbs.)	5760	4854	4069	3388	2799	2293	1865
TRAJ: 100 yds. zero	-1.5"	0.0	-2.8"	-10.7"	-24.8"	-46.4"	-77.1"
TRAJ: 200 yds. zero	-1.5"	1.4"	0.0	-6.5"	-19.2"	-39.4"	-68.7"
TRAJ: 300 yds. zero	-1.5"	3.6"	4.4"	0.0	-10.5"	-28.5"	-55.6"
TRAJ: 400 yds. zero	-1.5"	6.2"	9.6"	7.9"	0.0	-15.4"	-39.8"
TRAJ: 500 yds. zero	-1.5"	9.3"	15.8"	17.1"	12.3"	0.0	-21.4"
TRAJ: 600 yds. zero	-1.5"	12.8"	22.9"	27.8"	26.6"	17.8"	0.0
VELOCITY (fps)	3000	2751	2516	2292	2080	1880	1693
ENERGY (ft.-lbs.)	5395	4537	3794	3150	2594	2119	1718
TRAJ: 100 yds. zero	-1.5"	0.0	-3.1"	-11.7"	-26.9"	-50.2"	-83.4"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.1"	-20.7"	-42.5"	-74.1"
TRAJ: 300 yds. zero	-1.5"	3.9"	4.7"	0.0	-11.3"	-30.7"	-60.0"
TRAJ: 400 yds. zero	-1.5"	6.7"	10.4"	8.5"	0.0	-16.6"	-43.0"
TRAJ: 500 yds. zero	-1.5"	10.0"	17.0"	18.4"	13.2"	0.0	-23.1"
TRAJ: 600 yds. zero	-1.5"	13.9"	24.7"	30.0"	28.7"	19.3"	0.0
VELOCITY (fps)	2900	2657	2426	2207	2000	1805	1623
ENERGY (ft.-lbs.)	5041	4231	3528	2920	2397	1952	1580
TRAJ: 100 yds. zero	-1.5"	0.0	-3.4"	-12.8"	-29.3"	-54.5"	-90.5"
TRAJ: 200 yds. zero	-1.5"	1.7"	0.0	-7.6"	-22.4"	-45.9"	-80.2"
TRAJ: 300 yds. zero	-1.5"	4.3"	5.1"	0.0	-12.2"	-33.2"	-64.9"
TRAJ: 400 yds. zero	-1.5"	7.3"	11.2"	9.2"	0.0	-17.9"	-46.5"
TRAJ: 500 yds. zero	-1.5"	10.9"	18.4"	19.9"	14.3"	0.0	-25.1"
TRAJ: 600 yds. zero	-1.5"	15.1"	26.7"	32.5"	31.0"	20.9"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2800	2562	2336	2122	1919	1729	1555
ENERGY (ft.-lbs.)	4699	3935	3272	2699	2208	1793	1449
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.0"	-31.9"	-59.4"	-98.5"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.3"	-24.3"	-49.8"	-87.0"
TRAJ: 300 yds. zero	-1.5"	4.7"	5.5"	0.0	-13.3"	-36.0"	-70.4"
TRAJ: 400 yds. zero	-1.5"	8.0"	12.2"	10.0"	0.0	-19.4"	-50.5"
TRAJ: 500 yds. zero	-1.5"	11.9"	19.9"	21.6"	15.5"	0.0	-27.2"
TRAJ: 600 yds. zero	-1.5"	16.4"	29.0"	35.2"	33.7"	22.7"	0.0
VELOCITY (fps)	2700	2467	2246	2037	1839	1655	1487
ENERGY (ft.-lbs.)	4370	3649	3024	2486	2027	1642	1326
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.4"	-34.9"	-64.8"	-107.4"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.0"	-26.5"	-54.2"	-94.7"
TRAJ: 300 yds. zero	-1.5"	5.1"	6.0"	0.0	-14.4"	-39.2"	-76.7"
TRAJ: 400 yds. zero	-1.5"	8.7"	13.2"	10.8"	0.0	-21.1"	-55.0"
TRAJ: 500 yds. zero	-1.5"	13.0"	21.7"	23.5"	16.9"	0.0	-29.7"
TRAJ: 600 yds. zero	-1.5"	17.9"	31.6"	38.3"	36.7"	24.7"	0.0
VELOCITY (fps)	2600	2372	2156	1951	1759	1582	1422
ENERGY (ft.-lbs.)	4052	3373	2787	2283	1856	1500	1211
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-16.9"	-38.2"	-70.9"	-117.5"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-9.8"	-28.9"	-59.1"	-103.4"
TRAJ: 300 yds. zero	-1.5"	5.6"	6.6"	0.0	-15.7"	-42.7"	-83.7"
TRAJ: 400 yds. zero	-1.5"	9.6"	14.4"	11.8"	0.0	-23.1"	-60.1"
TRAJ: 500 yds. zero	-1.5"	14.2"	23.7"	25.6"	18.5"	0.0	-32.4"
TRAJ: 600 yds. zero	-1.5"	19.6"	34.5"	41.9"	40.1"	27.0"	0.0
VELOCITY (fps)	2500	2277	2066	1867	1681	1510	1358
ENERGY (ft.-lbs.)	3746	3109	2559	2089	1693	1367	1106
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-18.6"	-42.0"	-77.8"	-128.9"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-10.8"	-31.6"	-64.7"	-113.2"
TRAJ: 300 yds. zero	-1.5"	6.2"	7.2"	0.0	-17.2"	-46.8"	-91.7"
TRAJ: 400 yds. zero	-1.5"	10.5"	15.8"	12.9"	0.0	-25.3"	-65.9"
TRAJ: 500 yds. zero	-1.5"	15.6"	25.9"	28.1"	20.2"	0.0	-35.6"
TRAJ: 600 yds. zero	-1.5"	21.5"	37.7"	45.8"	43.9"	29.6"	0.0
VELOCITY (fps)	2400	2182	1976	1783	1603	1440	1298
ENERGY (ft.-lbs.)	3453	2855	2341	1905	1541	1244	1010
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-20.6"	-46.3"	-85.6"	-141.8"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-11.8"	-34.7"	-71.1"	-124.4"
TRAJ: 300 yds. zero	-1.5"	6.9"	7.9"	0.0	-18.9"	-51.4"	-100.7"
TRAJ: 400 yds. zero	-1.5"	11.6"	17.3"	14.2"	0.0	-27.8"	-72.4"
TRAJ: 500 yds. zero	-1.5"	17.1"	28.4"	30.8"	22.2"	0.0	-39.1"
TRAJ: 600 yds. zero	-1.5"	23.6"	41.5"	50.3"	48.3"	32.6"	0.0
VELOCITY (fps)	2300	2088	1887	1699	1527	1373	1241
ENERGY (ft.-lbs.)	3171	2612	2134	1731	1398	1130	924
TRAJ: 100 yds. zero	-1.5"	0.0	-6.5"	-22.8"	-51.2"	-94.6"	-156.5"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-13.0"	-38.2"	-78.3"	-137.0"
TRAJ: 300 yds. zero	-1.5"	7.6"	8.7"	0.0	-20.8"	-56.6"	-110.9"
TRAJ: 400 yds. zero	-1.5"	12.8"	19.1"	15.6"	0.0	-30.6"	-79.7"
TRAJ: 500 yds. zero	-1.5"	18.9"	31.3"	33.9"	24.5"	0.0	-43.0"
TRAJ: 600 yds. zero	-1.5"	26.1"	45.7"	55.4"	53.1"	35.8"	0.0
VELOCITY (fps)	2200	1993	1798	1617	1453	1309	1189
ENERGY (ft.-lbs.)	2901	2381	1938	1568	1266	1027	847
TRAJ: 100 yds. zero	-1.5"	0.0	-7.3"	-25.4"	-56.8"	-104.7"	-173.1"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-14.4"	-42.2"	-86.5"	-151.3"
TRAJ: 300 yds. zero	-1.5"	8.5"	9.6"	0.0	-23.0"	-62.5"	-122.4"
TRAJ: 400 yds. zero	-1.5"	14.2"	21.1"	17.2"	0.0	-33.8"	-87.9"
TRAJ: 500 yds. zero	-1.5"	20.9"	34.6"	37.5"	27.0"	0.0	-47.4"
TRAJ: 600 yds. zero	-1.5"	28.9"	50.4"	61.2"	58.6"	39.5"	0.0
VELOCITY (fps)	2100	1899	1710	1537	1382	1249	1141
ENERGY (ft.-lbs.)	2643	2161	1753	1416	1145	935	781
TRAJ: 100 yds. zero	-1.5"	0.0	-8.2"	-28.3"	-63.2"	-116.3"	-191.9"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-16.0"	-46.8"	-95.9"	-167.4"
TRAJ: 300 yds. zero	-1.5"	9.4"	10.7"	0.0	-25.5"	-69.2"	-135.4"
TRAJ: 400 yds. zero	-1.5"	15.8"	23.4"	19.1"	0.0	-37.4"	-97.2"
TRAJ: 500 yds. zero	-1.5"	23.3"	38.4"	41.5"	29.9"	0.0	-52.3"
TRAJ: 600 yds. zero	-1.5"	32.0"	55.8"	67.7"	64.8"	43.6"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2000	1805	1624	1459	1314	1193	1099
ENERGY (ft.-lbs.)	2398	1952	1580	1276	1035	853	724
TRAJ: 100 yds. zero	-1.5"	0.0	-9.2"	-31.7"	-70.5"	-129.6"	-213.1"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-17.8"	-52.1"	-106.6"	-185.5"
TRAJ: 300 yds. zero	-1.5"	10.6"	11.9"	0.0	-28.3"	-76.8"	-149.8"
TRAJ: 400 yds. zero	-1.5"	17.6"	26.0"	21.2"	0.0	-41.5"	-107.4"
TRAJ: 500 yds. zero	-1.5"	25.9"	42.6"	46.1"	33.2"	0.0	-57.6"
TRAJ: 600 yds. zero	-1.5"	35.5"	61.8"	74.9"	71.6"	48.0"	0.0
VELOCITY (fps)	1900	1712	1538	1383	1249	1142	1061
ENERGY (ft.-lbs.)	2164	1756	1418	1146	936	782	675
TRAJ: 100 yds. zero	-1.5"	0.0	-10.4"	-35.6"	-79.0"	-144.7"	-237.0"
TRAJ: 200 yds. zero	-1.5"	5.2"	0.0	-19.9"	-58.1"	-118.7"	-205.7"
TRAJ: 300 yds. zero	-1.5"	11.9"	13.3"	0.0	-31.5"	-85.4"	-165.8"
TRAJ: 400 yds. zero	-1.5"	19.7"	29.1"	23.7"	0.0	-46.0"	-118.5"
TRAJ: 500 yds. zero	-1.5"	28.9"	47.5"	51.3"	36.8"	0.0	-63.3"
TRAJ: 600 yds. zero	-1.5"	39.5"	68.6"	82.9"	79.0"	52.8"	0.0
VELOCITY (fps)	1800	1619	1455	1310	1190	1097	1028
ENERGY (ft.-lbs.)	1942	1571	1269	1029	849	721	633
TRAJ: 100 yds. zero	-1.5"	0.0	-11.8"	-40.1"	-88.7"	-161.8"	-263.5"
TRAJ: 200 yds. zero	-1.5"	5.9"	0.0	-22.4"	-65.1"	-132.3"	-228.1"
TRAJ: 300 yds. zero	-1.5"	13.4"	14.9"	0.0	-35.2"	-95.0"	-183.4"
TRAJ: 400 yds. zero	-1.5"	22.2"	32.5"	26.4"	0.0	-51.0"	-130.5"
TRAJ: 500 yds. zero	-1.5"	32.4"	52.9"	57.0"	40.8"	0.0	-69.3"
TRAJ: 600 yds. zero	-1.5"	43.9"	76.0"	91.7"	87.0"	57.8"	0.0
VELOCITY (fps)	1700	1528	1374	1242	1136	1057	997
ENERGY (ft.-lbs.)	1732	1399	1131	924	774	670	596
TRAJ: 100 yds. zero	-1.5"	0.0	-13.4"	-45.3"	-99.8"	-181.1"	-292.9"
TRAJ: 200 yds. zero	-1.5"	6.7"	0.0	-25.2"	-73.0"	-147.5"	-252.6"
TRAJ: 300 yds. zero	-1.5"	15.1"	16.8"	0.0	-39.4"	-105.6"	-202.2"
TRAJ: 400 yds. zero	-1.5"	25.0"	36.5"	29.5"	0.0	-56.3"	-143.1"
TRAJ: 500 yds. zero	-1.5"	36.2"	59.0"	63.3"	45.1"	0.0	-75.5"
TRAJ: 600 yds. zero	-1.5"	48.8"	84.2"	101.1"	95.4"	63.0"	0.0
VELOCITY (fps)	1600	1438	1296	1178	1088	1021	968
ENERGY (ft.-lbs.)	1535	1239	1006	832	710	625	562
TRAJ: 100 yds. zero	-1.5"	0.0	-15.4"	-51.5"	-112.6"	-202.7"	-325.3"
TRAJ: 200 yds. zero	-1.5"	7.7"	0.0	-28.4"	-81.9"	-164.3"	-279.2"
TRAJ: 300 yds. zero	-1.5"	17.2"	18.9"	0.0	-44.0"	-117.0"	-222.4"
TRAJ: 400 yds. zero	-1.5"	28.1"	40.9"	33.0"	0.0	-62.0"	-156.4"
TRAJ: 500 yds. zero	-1.5"	40.5"	65.7"	70.2"	49.6"	0.0	-82.0"
TRAJ: 600 yds. zero	-1.5"	54.2"	93.1"	111.2"	104.3"	68.4"	0.0

375 CALIBER (.375" Dia.) 270 GRAIN ROUND NOSE
SECTIONAL DENSITY: .274 BALLISTIC COEFFICIENT: .253

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2723	2376	2056	1762	1501	1283
ENERGY (ft.-lbs.)	5760	4446	3385	2533	1861	1351	987
TRAJ: 100 yds. zero	-1.5"	0.0	-3.2"	-12.6"	-30.3"	-59.4"	-104.0"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.8"	-23.9"	-51.3"	-94.4"
TRAJ: 300 yds. zero	-1.5"	4.2"	5.2"	0.0	-13.5"	-38.3"	-78.8"
TRAJ: 400 yds. zero	-1.5"	7.6"	12.0"	10.1"	0.0	-21.4"	-58.5"
TRAJ: 500 yds. zero	-1.5"	11.9"	20.5"	23.0"	17.2"	0.0	-32.8"
TRAJ: 600 yds. zero	-1.5"	17.3"	31.5"	39.4"	39.0"	27.3"	0.0
VELOCITY (fps)	3000	2632	2292	1978	1692	1441	1236
ENERGY (ft.-lbs.)	5395	4151	3148	2344	1716	1244	916
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.8"	-33.0"	-64.4"	-112.9"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-8.4"	-25.9"	-55.6"	-102.2"
TRAJ: 300 yds. zero	-1.5"	4.6"	5.6"	0.0	-14.6"	-41.5"	-85.4"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.9"	10.9"	0.0	-23.2"	-63.5"
TRAJ: 500 yds. zero	-1.5"	12.9"	22.2"	24.9"	18.6"	0.0	-35.6"
TRAJ: 600 yds. zero	-1.5"	18.8"	34.1"	42.7"	42.3"	29.6"	0.0
VELOCITY (fps)	2900	2540	2206	1899	1622	1382	1191
ENERGY (ft.-lbs.)	5041	3866	2918	2163	1577	1145	851
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-15.0"	-35.9"	-70.1"	-122.8"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.2"	-28.0"	-60.3"	-111.0"
TRAJ: 300 yds. zero	-1.5"	5.0"	6.1"	0.0	-15.8"	-45.0"	-92.7"
TRAJ: 400 yds. zero	-1.5"	9.0"	14.0"	11.9"	0.0	-25.3"	-69.0"
TRAJ: 500 yds. zero	-1.5"	14.0"	24.1"	27.0"	20.2"	0.0	-38.7"
TRAJ: 600 yds. zero	-1.5"	20.5"	37.0"	46.4"	46.0"	32.2"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2800	2447	2121	1822	1553	1325	1150
ENERGY (ft.-lbs.)	4699	3590	2697	1989	1446	1053	793
TRAJ: 100 yds. zero	-1.5"	0.0	-4.3"	-16.5"	-39.2"	-76.5"	-133.9"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-10.0"	-30.5"	-65.6"	-120.8"
TRAJ: 300 yds. zero	-1.5"	5.5"	6.6"	0.0	-17.2"	-49.0"	-100.9"
TRAJ: 400 yds. zero	-1.5"	9.8"	15.3"	12.9"	0.0	-27.5"	-75.1"
TRAJ: 500 yds. zero	-1.5"	15.3"	26.3"	29.4"	22.0"	0.0	-42.1"
TRAJ: 600 yds. zero	-1.5"	22.3"	40.3"	50.5"	50.0"	35.1"	0.0
VELOCITY (fps)	2700	2355	2036	1744	1486	1271	1113
ENERGY (ft.-lbs.)	4370	3324	2484	1824	1323	968	742
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-18.1"	-42.9"	-83.7"	-146.2"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.9"	-33.3"	-71.6"	-131.7"
TRAJ: 300 yds. zero	-1.5"	6.0"	7.2"	0.0	-18.8"	-53.5"	-110.0"
TRAJ: 400 yds. zero	-1.5"	10.7"	16.6"	14.1"	0.0	-30.0"	-81.8"
TRAJ: 500 yds. zero	-1.5"	16.7"	28.7"	32.1"	24.0"	0.0	-45.8"
TRAJ: 600 yds. zero	-1.5"	24.4"	43.9"	55.0"	54.6"	38.2"	0.0
VELOCITY (fps)	2600	2262	1951	1668	1420	1220	1079
ENERGY (ft.-lbs.)	4052	3068	2281	1667	1209	893	698
TRAJ: 100 yds. zero	-1.5"	0.0	-5.3"	-19.9"	-47.1"	-91.7"	-159.9"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-11.9"	-36.4"	-78.4"	-143.8"
TRAJ: 300 yds. zero	-1.5"	6.6"	7.9"	0.0	-20.6"	-58.6"	-120.1"
TRAJ: 400 yds. zero	-1.5"	11.8"	18.2"	15.4"	0.0	-32.9"	-89.2"
TRAJ: 500 yds. zero	-1.5"	18.3"	31.4"	35.1"	26.3"	0.0	-49.8"
TRAJ: 600 yds. zero	-1.5"	26.6"	47.9"	60.0"	59.5"	41.5"	0.0
VELOCITY (fps)	2500	2170	1866	1592	1357	1173	1049
ENERGY (ft.-lbs.)	3746	2822	2087	1520	1104	825	659
TRAJ: 100 yds. zero	-1.5"	0.0	-5.9"	-22.0"	-51.8"	-100.8"	-175.0"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-13.0"	-40.0"	-85.9"	-157.2"
TRAJ: 300 yds. zero	-1.5"	7.3"	8.7"	0.0	-22.6"	-64.2"	-131.1"
TRAJ: 400 yds. zero	-1.5"	13.0"	20.0"	16.9"	0.0	-36.0"	-97.2"
TRAJ: 500 yds. zero	-1.5"	20.2"	34.4"	38.5"	28.8"	0.0	-54.0"
TRAJ: 600 yds. zero	-1.5"	29.2"	52.4"	65.5"	64.8"	45.0"	0.0
VELOCITY (fps)	2400	2077	1782	1519	1297	1131	1021
ENERGY (ft.-lbs.)	3453	2587	1903	1382	1009	766	625
TRAJ: 100 yds. zero	-1.5"	0.0	-6.6"	-24.3"	-57.2"	-111.0"	-191.6"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-14.4"	-44.0"	-94.4"	-171.8"
TRAJ: 300 yds. zero	-1.5"	8.1"	9.6"	0.0	-24.8"	-70.5"	-143.1"
TRAJ: 400 yds. zero	-1.5"	14.3"	22.0"	18.6"	0.0	-39.5"	-105.8"
TRAJ: 500 yds. zero	-1.5"	22.2"	37.8"	42.3"	31.6"	0.0	-58.5"
TRAJ: 600 yds. zero	-1.5"	31.9"	57.3"	71.5"	70.6"	48.7"	0.0
VELOCITY (fps)	2300	1985	1699	1447	1240	1093	996
ENERGY (ft.-lbs.)	3171	2363	1730	1255	922	715	595
TRAJ: 100 yds. zero	-1.5"	0.0	-7.4"	-27.0"	-63.3"	-122.4"	-209.9"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-15.9"	-48.5"	-103.9"	-187.7"
TRAJ: 300 yds. zero	-1.5"	9.0"	10.6"	0.0	-27.3"	-77.4"	-156.0"
TRAJ: 400 yds. zero	-1.5"	15.8"	24.2"	20.5"	0.0	-43.3"	-115.0"
TRAJ: 500 yds. zero	-1.5"	24.5"	41.6"	46.5"	34.6"	0.0	-63.0"
TRAJ: 600 yds. zero	-1.5"	35.0"	62.6"	78.0"	76.6"	52.5"	0.0
VELOCITY (fps)	2200	1894	1617	1378	1188	1058	973
ENERGY (ft.-lbs.)	2901	2149	1567	1138	846	671	567
TRAJ: 100 yds. zero	-1.5"	0.0	-8.3"	-30.0"	-70.2"	-135.0"	-229.8"
TRAJ: 200 yds. zero	-1.5"	4.1"	0.0	-17.6"	-53.6"	-114.3"	-204.9"
TRAJ: 300 yds. zero	-1.5"	10.0"	11.7"	0.0	-30.2"	-85.0"	-169.8"
TRAJ: 400 yds. zero	-1.5"	17.5"	26.8"	22.6"	0.0	-47.3"	-124.5"
TRAJ: 500 yds. zero	-1.5"	27.0"	45.7"	51.0"	37.8"	0.0	-67.7"
TRAJ: 600 yds. zero	-1.5"	38.3"	68.3"	84.9"	83.0"	56.5"	0.0
VELOCITY (fps)	2100	1802	1536	1312	1141	1028	951
ENERGY (ft.-lbs.)	2643	1947	1415	1031	780	633	542
TRAJ: 100 yds. zero	-1.5"	0.0	-9.3"	-33.5"	-78.0"	-149.0"	-251.3"
TRAJ: 200 yds. zero	-1.5"	4.6"	0.0	-19.5"	-59.4"	-125.8"	-223.5"
TRAJ: 300 yds. zero	-1.5"	11.2"	13.0"	0.0	-33.4"	-93.3"	-184.4"
TRAJ: 400 yds. zero	-1.5"	19.5"	29.7"	25.0"	0.0	-51.5"	-134.4"
TRAJ: 500 yds. zero	-1.5"	29.8"	50.3"	56.0"	41.2"	0.0	-72.5"
TRAJ: 600 yds. zero	-1.5"	41.9"	74.5"	92.2"	89.6"	60.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2000	1712	1458	1249	1098	1000	930
ENERGY (ft.-lbs.)	2398	1757	1274	935	723	599	518
TRAJ: 100 yds. zero	-1.5"	0.0	-10.5"	-37.4"	-86.8"	-164.4"	-274.8"
TRAJ: 200 yds. zero	-1.5"	5.2"	0.0	-21.7"	-65.8"	-138.2"	-243.4"
TRAJ: 300 yds. zero	-1.5"	12.5"	14.5"	0.0	-36.9"	-102.0"	-199.9"
TRAJ: 400 yds. zero	-1.5"	21.7"	32.9"	27.6"	0.0	-55.9"	-144.6"
TRAJ: 500 yds. zero	-1.5"	32.9"	55.3"	61.2"	44.8"	0.0	-77.5"
TRAJ: 600 yds. zero	-1.5"	45.8"	81.1"	100.0"	96.4"	64.6"	0.0
VELOCITY (fps)	1900	1622	1382	1192	1061	974	910
ENERGY (ft.-lbs.)	2164	1578	1145	851	674	569	496
TRAJ: 100 yds. zero	-1.5"	0.0	-11.8"	-42.0"	-96.6"	-181.2"	-300.1"
TRAJ: 200 yds. zero	-1.5"	5.9"	0.0	-24.2"	-72.9"	-151.7"	-264.7"
TRAJ: 300 yds. zero	-1.5"	14.0"	16.2"	0.0	-40.6"	-111.3"	-216.2"
TRAJ: 400 yds. zero	-1.5"	24.1"	36.5"	30.5"	0.0	-60.5"	-155.3"
TRAJ: 500 yds. zero	-1.5"	36.2"	60.7"	66.8"	48.4"	0.0	-82.7"
TRAJ: 600 yds. zero	-1.5"	50.0"	88.2"	108.1"	103.5"	68.9"	0.0
VELOCITY (fps)	1800	1534	1310	1140	1027	950	890
ENERGY (ft.-lbs.)	1942	1411	1028	778	632	541	475
TRAJ: 100 yds. zero	-1.5"	0.0	-13.4"	-47.1"	-107.5"	-199.5"	-327.6"
TRAJ: 200 yds. zero	-1.5"	6.7"	0.0	-27.1"	-80.7"	-166.1"	-287.4"
TRAJ: 300 yds. zero	-1.5"	15.7"	18.0"	0.0	-44.6"	-121.0"	-233.3"
TRAJ: 400 yds. zero	-1.5"	26.9"	40.4"	33.5"	0.0	-65.2"	-166.3"
TRAJ: 500 yds. zero	-1.5"	39.9"	66.4"	72.6"	52.1"	0.0	-88.1"
TRAJ: 600 yds. zero	-1.5"	54.6"	95.8"	116.6"	110.9"	73.4"	0.0
VELOCITY (fps)	1700	1448	1241	1093	996	927	871
ENERGY (ft.-lbs.)	1732	1257	924	716	595	515	455
TRAJ: 100 yds. zero	-1.5"	0.0	-15.2"	-53.0"	-119.5"	-219.5"	-357.2"
TRAJ: 200 yds. zero	-1.5"	7.6"	0.0	-30.2"	-89.1"	-181.5"	-311.7"
TRAJ: 300 yds. zero	-1.5"	17.7"	20.1"	0.0	-48.8"	-131.1"	-251.2"
TRAJ: 400 yds. zero	-1.5"	29.9"	44.6"	36.6"	0.0	-70.1"	-178.0"
TRAJ: 500 yds. zero	-1.5"	43.9"	72.6"	78.7"	56.1"	0.0	-93.9"
TRAJ: 600 yds. zero	-1.5"	59.5"	103.9"	125.6"	118.7"	78.2"	0.0
VELOCITY (fps)	1600	1364	1178	1052	968	905	852
ENERGY (ft.-lbs.)	1535	1115	832	663	562	491	435
TRAJ: 100 yds. zero	-1.5"	0.0	-17.3"	-59.6"	-132.7"	-241.1"	-389.4"
TRAJ: 200 yds. zero	-1.5"	8.6"	0.0	-33.7"	-98.1"	-197.9"	-337.5"
TRAJ: 300 yds. zero	-1.5"	19.9"	22.4"	0.0	-53.2"	-141.8"	-270.2"
TRAJ: 400 yds. zero	-1.5"	33.2"	49.0"	39.9"	0.0	-75.3"	-190.4"
TRAJ: 500 yds. zero	-1.5"	48.2"	79.2"	85.1"	60.3"	0.0	-100.1"
TRAJ: 600 yds. zero	-1.5"	64.9"	112.5"	135.1"	127.0"	83.4"	0.0

375 CALIBER (.375" Dia.) 300 GRAIN ROUND NOSE
SECTIONAL DENSITY: .305 BALLISTIC COEFFICIENT: .250

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2535	2199	1889	1609	1369	1180
ENERGY (ft.-lbs.)	5601	4281	3220	2376	1725	1248	927
TRAJ: 100 yds. zero	-1.5"	0.0	-3.9"	-15.1"	-36.2"	-70.8"	-124.2"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-9.2"	-28.3"	-60.9"	-112.4"
TRAJ: 300 yds. zero	-1.5"	5.0"	6.1"	0.0	-16.0"	-45.6"	-93.9"
TRAJ: 400 yds. zero	-1.5"	9.0"	14.1"	12.0"	0.0	-25.6"	-70.0"
TRAJ: 500 yds. zero	-1.5"	14.2"	24.4"	27.3"	20.5"	0.0	-39.3"
TRAJ: 600 yds. zero	-1.5"	20.7"	37.5"	47.0"	46.6"	32.7"	0.0
VELOCITY (fps)	2800	2443	2114	1811	1541	1313	1140
ENERGY (ft.-lbs.)	5222	3976	2975	2185	1582	1148	866
TRAJ: 100 yds. zero	-1.5"	0.0	-4.4"	-16.6"	-39.5"	-77.2"	-135.4"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-10.0"	-30.8"	-66.3"	-122.3"
TRAJ: 300 yds. zero	-1.5"	5.5"	6.7"	0.0	-17.4"	-49.6"	-102.2"
TRAJ: 400 yds. zero	-1.5"	9.9"	15.4"	13.0"	0.0	-27.9"	-76.2"
TRAJ: 500 yds. zero	-1.5"	15.4"	26.5"	29.8"	22.3"	0.0	-42.7"
TRAJ: 600 yds. zero	-1.5"	22.6"	40.8"	51.1"	50.8"	35.6"	0.0
VELOCITY (fps)	2700	2351	2028	1734	1474	1260	1104
ENERGY (ft.-lbs.)	4855	3681	2740	2003	1448	1057	812
TRAJ: 100 yds. zero	-1.5"	0.0	-4.8"	-18.2"	-43.2"	-84.5"	-147.8"
TRAJ: 200 yds. zero	-1.5"	2.4"	0.0	-10.9"	-33.6"	-72.4"	-133.3"
TRAJ: 300 yds. zero	-1.5"	6.1"	7.3"	0.0	-19.0"	-54.1"	-111.5"
TRAJ: 400 yds. zero	-1.5"	10.8"	16.8"	14.2"	0.0	-30.4"	-83.0"
TRAJ: 500 yds. zero	-1.5"	16.9"	29.0"	32.5"	24.3"	0.0	-46.5"
TRAJ: 600 yds. zero	-1.5"	24.6"	44.4"	55.7"	55.3"	38.7"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2600	2258	1944	1658	1410	1210	1071
ENERGY (ft.-lbs.)	4502	3397	2516	1831	1323	975	764
TRAJ: 100 yds. zero	-1.5"	0.0	-5.4"	-20.0"	-47.5"	-92.6"	-161.6"
TRAJ: 200 yds. zero	-1.5"	2.7"	0.0	-12.0"	-36.7"	-79.2"	-145.5"
TRAJ: 300 yds. zero	-1.5"	6.7"	8.0"	0.0	-20.8"	-59.2"	-121.6"
TRAJ: 400 yds. zero	-1.5"	11.9"	18.4"	15.6"	0.0	-33.3"	-90.4"
TRAJ: 500 yds. zero	-1.5"	18.5"	31.7"	35.5"	26.6"	0.0	-50.5"
TRAJ: 600 yds. zero	-1.5"	26.9"	48.5"	60.8"	60.3"	42.1"	0.0
VELOCITY (fps)	2500	2166	1859	1583	1347	1164	1042
ENERGY (ft.-lbs.)	4163	3125	2302	1669	1209	903	723
TRAJ: 100 yds. zero	-1.5"	0.0	-6.0"	-22.1"	-52.2"	-101.8"	-176.9"
TRAJ: 200 yds. zero	-1.5"	3.0"	0.0	-13.1"	-40.3"	-86.8"	-159.0"
TRAJ: 300 yds. zero	-1.5"	7.4"	8.8"	0.0	-22.8"	-64.9"	-132.7"
TRAJ: 400 yds. zero	-1.5"	13.1"	20.2"	17.1"	0.0	-36.5"	-98.5"
TRAJ: 500 yds. zero	-1.5"	20.4"	34.7"	39.0"	29.2"	0.0	-54.7"
TRAJ: 600 yds. zero	-1.5"	29.5"	53.0"	66.3"	65.7"	45.6"	0.0
VELOCITY (fps)	2400	2074	1775	1510	1288	1123	1015
ENERGY (ft.-lbs.)	3836	2864	2099	1518	1104	839	686
TRAJ: 100 yds. zero	-1.5"	0.0	-6.7"	-24.4"	-57.7"	-112.0"	-193.6"
TRAJ: 200 yds. zero	-1.5"	3.3"	0.0	-14.5"	-44.3"	-95.4"	-173.7"
TRAJ: 300 yds. zero	-1.5"	8.1"	9.6"	0.0	-25.1"	-71.3"	-144.7"
TRAJ: 400 yds. zero	-1.5"	14.4"	22.2"	18.8"	0.0	-40.0"	-107.1"
TRAJ: 500 yds. zero	-1.5"	22.4"	38.2"	42.8"	32.0"	0.0	-59.2"
TRAJ: 600 yds. zero	-1.5"	32.3"	57.9"	72.4"	71.4"	49.3"	0.0
VELOCITY (fps)	2300	1982	1692	1438	1232	1086	990
ENERGY (ft.-lbs.)	3523	2615	1907	1378	1011	785	653
TRAJ: 100 yds. zero	-1.5"	0.0	-7.4"	-27.1"	-63.8"	-123.5"	-211.9"
TRAJ: 200 yds. zero	-1.5"	3.7"	0.0	-16.0"	-48.9"	-104.9"	-189.6"
TRAJ: 300 yds. zero	-1.5"	9.0"	10.6"	0.0	-27.6"	-78.3"	-157.7"
TRAJ: 400 yds. zero	-1.5"	15.9"	24.5"	20.7"	0.0	-43.8"	-116.2"
TRAJ: 500 yds. zero	-1.5"	24.7"	42.0"	47.0"	35.0"	0.0	-63.7"
TRAJ: 600 yds. zero	-1.5"	35.3"	63.2"	78.8"	77.5"	53.1"	0.0
VELOCITY (fps)	2200	1890	1610	1370	1181	1052	967
ENERGY (ft.-lbs.)	3224	2379	1727	1250	928	738	623
TRAJ: 100 yds. zero	-1.5"	0.0	-8.3"	-30.2"	-70.7"	-136.2"	-231.8"
TRAJ: 200 yds. zero	-1.5"	4.2"	0.0	-17.7"	-54.1"	-115.4"	-206.9"
TRAJ: 300 yds. zero	-1.5"	10.1"	11.8"	0.0	-30.5"	-85.9"	-171.5"
TRAJ: 400 yds. zero	-1.5"	17.7"	27.0"	22.9"	0.0	-47.8"	-125.8"
TRAJ: 500 yds. zero	-1.5"	27.2"	46.2"	51.6"	38.2"	0.0	-68.4"
TRAJ: 600 yds. zero	-1.5"	38.6"	69.0"	85.8"	83.8"	57.0"	0.0
VELOCITY (fps)	2100	1799	1530	1304	1134	1022	946
ENERGY (ft.-lbs.)	2937	2155	1560	1133	857	696	596
TRAJ: 100 yds. zero	-1.5"	0.0	-9.3"	-33.7"	-78.6"	-150.3"	-253.5"
TRAJ: 200 yds. zero	-1.5"	4.7"	0.0	-19.6"	-59.9"	-126.9"	-225.5"
TRAJ: 300 yds. zero	-1.5"	11.2"	13.1"	0.0	-33.7"	-94.2"	-186.2"
TRAJ: 400 yds. zero	-1.5"	19.6"	29.9"	25.3"	0.0	-52.0"	-135.7"
TRAJ: 500 yds. zero	-1.5"	30.1"	50.8"	56.5"	41.6"	0.0	-73.2"
TRAJ: 600 yds. zero	-1.5"	42.3"	75.2"	93.1"	90.4"	61.0"	0.0
VELOCITY (fps)	2000	1709	1453	1243	1093	995	925
ENERGY (ft.-lbs.)	2664	1944	1405	1029	795	660	570
TRAJ: 100 yds. zero	-1.5"	0.0	-10.5"	-37.6"	-87.4"	-165.7"	-277.0"
TRAJ: 200 yds. zero	-1.5"	5.3"	0.0	-21.9"	-66.4"	-139.4"	-245.4"
TRAJ: 300 yds. zero	-1.5"	12.5"	14.6"	0.0	-37.2"	-102.9"	-201.7"
TRAJ: 400 yds. zero	-1.5"	21.8"	33.2"	27.9"	0.0	-56.4"	-145.9"
TRAJ: 500 yds. zero	-1.5"	33.1"	55.8"	61.8"	45.2"	0.0	-78.2"
TRAJ: 600 yds. zero	-1.5"	46.2"	81.8"	100.8"	97.3"	65.1"	0.0
VELOCITY (fps)	1900	1619	1377	1186	1056	970	905
ENERGY (ft.-lbs.)	2404	1747	1263	937	742	626	546
TRAJ: 100 yds. zero	-1.5"	0.0	-11.9"	-42.2"	-97.2"	-182.5"	-302.4"
TRAJ: 200 yds. zero	-1.5"	5.9"	0.0	-24.4"	-73.5"	-152.8"	-266.7"
TRAJ: 300 yds. zero	-1.5"	14.1"	16.3"	0.0	-41.0"	-112.2"	-218.0"
TRAJ: 400 yds. zero	-1.5"	24.3"	36.7"	30.7"	0.0	-61.0"	-156.5"
TRAJ: 500 yds. zero	-1.5"	36.5"	61.1"	67.3"	48.8"	0.0	-83.4"
TRAJ: 600 yds. zero	-1.5"	50.4"	88.9"	109.0"	104.3"	69.5"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1800	1531	1305	1135	1023	946	886
ENERGY (ft.-lbs.)	2158	1562	1134	857	697	596	523
TRAJ: 100 yds. zero	-1.5"	0.0	-13.4"	-47.4"	-108.2"	-200.9"	-329.8"
TRAJ: 200 yds. zero	-1.5"	6.7"	0.0	-27.2"	-81.3"	-167.3"	-289.5"
TRAJ: 300 yds. zero	-1.5"	15.8"	18.2"	0.0	-45.0"	-121.9"	-235.0"
TRAJ: 400 yds. zero	-1.5"	27.0"	40.6"	33.7"	0.0	-65.7"	-167.6"
TRAJ: 500 yds. zero	-1.5"	40.2"	66.9"	73.1"	52.5"	0.0	-88.8"
TRAJ: 600 yds. zero	-1.5"	55.0"	96.5"	117.5"	111.7"	74.0"	0.0
VELOCITY (fps)	1700	1445	1237	1089	993	923	867
ENERGY (ft.-lbs.)	1925	1391	1019	790	656	568	501
TRAJ: 100 yds. zero	-1.5"	0.0	-15.3"	-53.3"	-120.2"	-220.8"	-359.5"
TRAJ: 200 yds. zero	-1.5"	7.6"	0.0	-30.4"	-89.7"	-182.6"	-313.7"
TRAJ: 300 yds. zero	-1.5"	17.8"	20.3"	0.0	-49.1"	-132.0"	-252.9"
TRAJ: 400 yds. zero	-1.5"	30.0"	44.8"	36.9"	0.0	-70.6"	-179.2"
TRAJ: 500 yds. zero	-1.5"	44.2"	73.1"	79.2"	56.5"	0.0	-94.5"
TRAJ: 600 yds. zero	-1.5"	59.9"	104.6"	126.4"	119.5"	78.8"	0.0
VELOCITY (fps)	1600	1361	1174	1048	965	901	849
ENERGY (ft.-lbs.)	1705	1234	918	732	620	541	480
TRAJ: 100 yds. zero	-1.5"	0.0	-17.4"	-59.9"	-133.4"	-242.4"	-391.6"
TRAJ: 200 yds. zero	-1.5"	8.7"	0.0	-33.8"	-98.6"	-199.0"	-339.5"
TRAJ: 300 yds. zero	-1.5"	20.0"	22.6"	0.0	-53.5"	-142.6"	-271.8"
TRAJ: 400 yds. zero	-1.5"	33.3"	49.3"	40.1"	0.0	-75.7"	-191.6"
TRAJ: 500 yds. zero	-1.5"	48.5"	79.6"	85.6"	60.6"	0.0	-100.7"
TRAJ: 600 yds. zero	-1.5"	65.3"	113.2"	135.9"	127.7"	83.9"	0.0
VELOCITY (fps)	1500	1280	1117	1012	938	879	830
ENERGY (ft.-lbs.)	1499	1091	832	682	586	515	458
TRAJ: 100 yds. zero	-1.5"	0.0	-19.8"	-67.2"	-147.7"	-265.9"	-426.5"
TRAJ: 200 yds. zero	-1.5"	9.9"	0.0	-37.5"	-108.1"	-216.5"	-367.1"
TRAJ: 300 yds. zero	-1.5"	22.4"	25.0"	0.0	-58.1"	-153.9"	-292.1"
TRAJ: 400 yds. zero	-1.5"	36.9"	54.1"	43.6"	0.0	-81.3"	-205.0"
TRAJ: 500 yds. zero	-1.5"	53.2"	86.6"	92.3"	65.0"	0.0	-107.4"
TRAJ: 600 yds. zero	-1.5"	71.1"	122.4"	146.0"	136.6"	89.5"	0.0

375 CALIBER (.375" Dia.) 300 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .305 BALLISTIC COEFFICIENT: .460

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2698	2505	2320	2143	1974	1813
ENERGY (ft.-lbs.)	5601	4848	4179	3585	3058	2594	2189
TRAJ: 100 yds. zero	-1.5"	0.0	-3.3"	-12.1"	-27.4"	-50.3"	-82.1"
TRAJ: 200 yds. zero	-1.5"	1.6"	0.0	-7.2"	-20.8"	-42.1"	-72.3"
TRAJ: 300 yds. zero	-1.5"	4.0"	4.8"	0.0	-11.3"	-30.1"	-57.9"
TRAJ: 400 yds. zero	-1.5"	6.9"	10.4"	8.4"	0.0	-16.0"	-41.0"
TRAJ: 500 yds. zero	-1.5"	10.1"	16.8"	18.1"	12.8"	0.0	-21.8"
TRAJ: 600 yds. zero	-1.5"	13.7"	24.1"	28.9"	27.3"	18.1"	0.0
VELOCITY (fps)	2800	2603	2414	2232	2059	1894	1737
ENERGY (ft.-lbs.)	5222	4511	3880	3319	2824	2389	2010
TRAJ: 100 yds. zero	-1.5"	0.0	-3.6"	-13.3"	-29.9"	-54.7"	-89.2"
TRAJ: 200 yds. zero	-1.5"	1.8"	0.0	-7.8"	-22.6"	-45.6"	-78.3"
TRAJ: 300 yds. zero	-1.5"	4.4"	5.2"	0.0	-12.2"	-32.6"	-62.7"
TRAJ: 400 yds. zero	-1.5"	7.5"	11.3"	9.1"	0.0	-17.4"	-44.4"
TRAJ: 500 yds. zero	-1.5"	10.9"	18.2"	19.6"	13.9"	0.0	-23.6"
TRAJ: 600 yds. zero	-1.5"	14.9"	26.1"	31.4"	29.6"	19.7"	0.0
VELOCITY (fps)	2700	2507	2322	2145	1975	1814	1663
ENERGY (ft.-lbs.)	4855	4186	3590	3063	2598	2192	1842
TRAJ: 100 yds. zero	-1.5"	0.0	-4.0"	-14.5"	-32.6"	-59.6"	-97.2"
TRAJ: 200 yds. zero	-1.5"	2.0"	0.0	-8.5"	-24.5"	-49.5"	-85.1"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.7"	0.0	-13.2"	-35.4"	-68.1"
TRAJ: 400 yds. zero	-1.5"	8.2"	12.3"	9.9"	0.0	-18.8"	-48.3"
TRAJ: 500 yds. zero	-1.5"	11.9"	19.8"	21.2"	15.1"	0.0	-25.7"
TRAJ: 600 yds. zero	-1.5"	16.2"	28.4"	34.1"	32.2"	21.4"	0.0
VELOCITY (fps)	2600	2411	2230	2057	1892	1735	1589
ENERGY (ft.-lbs.)	4502	3872	3312	2817	2383	2006	1682
TRAJ: 100 yds. zero	-1.5"	0.0	-4.5"	-16.0"	-35.7"	-65.2"	-106.2"
TRAJ: 200 yds. zero	-1.5"	2.2"	0.0	-9.2"	-26.7"	-54.0"	-92.8"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.2"	0.0	-14.4"	-38.5"	-74.3"
TRAJ: 400 yds. zero	-1.5"	8.9"	13.4"	10.8"	0.0	-20.5"	-52.7"
TRAJ: 500 yds. zero	-1.5"	13.0"	21.6"	23.1"	16.4"	0.0	-28.0"
TRAJ: 600 yds. zero	-1.5"	17.7"	30.9"	37.1"	35.1"	23.3"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2500	2315	2138	1969	1809	1658	1517
ENERGY (ft.-lbs.)	4163	3570	3045	2583	2179	1830	1533
TRAJ: 100 yds. zero	-1.5"	0.0	-5.0"	-17.6"	-39.2"	-71.5"	-116.4"
TRAJ: 200 yds. zero	-1.5"	2.5"	0.0	-10.1"	-29.2"	-59.0"	-101.4"
TRAJ: 300 yds. zero	-1.5"	5.9"	6.7"	0.0	-15.7"	-42.1"	-81.2"
TRAJ: 400 yds. zero	-1.5"	9.8"	14.6"	11.8"	0.0	-22.5"	-57.6"
TRAJ: 500 yds. zero	-1.5"	14.3"	23.6"	25.3"	18.0"	0.0	-30.7"
TRAJ: 600 yds. zero	-1.5"	19.4"	33.8"	40.6"	38.4"	25.6"	0.0
VELOCITY (fps)	2400	2219	2047	1882	1726	1581	1447
ENERGY (ft.-lbs.)	3836	3281	2790	2359	1985	1665	1395
TRAJ: 100 yds. zero	-1.5"	0.0	-5.6"	-19.5"	-43.2"	-78.6"	-128.0"
TRAJ: 200 yds. zero	-1.5"	2.8"	0.0	-11.1"	-32.0"	-64.7"	-111.3"
TRAJ: 300 yds. zero	-1.5"	6.5"	7.4"	0.0	-17.2"	-46.2"	-89.1"
TRAJ: 400 yds. zero	-1.5"	10.8"	16.0"	12.9"	0.0	-24.6"	-63.2"
TRAJ: 500 yds. zero	-1.5"	15.7"	25.9"	27.7"	19.7"	0.0	-33.7"
TRAJ: 600 yds. zero	-1.5"	21.3"	37.1"	44.5"	42.1"	28.1"	0.0
VELOCITY (fps)	2300	2124	1955	1795	1645	1506	1380
ENERGY (ft.-lbs.)	3523	3004	2546	2147	1803	1511	1267
TRAJ: 100 yds. zero	-1.5"	0.0	-6.2"	-21.6"	-47.7"	-86.7"	-141.1"
TRAJ: 200 yds. zero	-1.5"	3.1"	0.0	-12.2"	-35.3"	-71.2"	-122.5"
TRAJ: 300 yds. zero	-1.5"	7.2"	8.1"	0.0	-19.0"	-50.8"	-98.0"
TRAJ: 400 yds. zero	-1.5"	11.9"	17.6"	14.2"	0.0	-27.1"	-69.6"
TRAJ: 500 yds. zero	-1.5"	17.3"	28.5"	30.5"	21.7"	0.0	-37.1"
TRAJ: 600 yds. zero	-1.5"	23.5"	40.8"	49.0"	46.4"	30.9"	0.0
VELOCITY (fps)	2200	2028	1864	1710	1566	1433	1315
ENERGY (ft.-lbs.)	3224	2739	2315	1947	1632	1368	1151
TRAJ: 100 yds. zero	-1.5"	0.0	-7.0"	-24.0"	-52.9"	-96.0"	-156.2"
TRAJ: 200 yds. zero	-1.5"	3.5"	0.0	-13.5"	-38.9"	-78.6"	-135.2"
TRAJ: 300 yds. zero	-1.5"	8.0"	9.0"	0.0	-20.9"	-56.1"	-108.2"
TRAJ: 400 yds. zero	-1.5"	13.2"	19.5"	15.7"	0.0	-29.9"	-76.8"
TRAJ: 500 yds. zero	-1.5"	19.2"	31.4"	33.7"	23.9"	0.0	-40.9"
TRAJ: 600 yds. zero	-1.5"	26.0"	45.1"	54.1"	51.2"	34.1"	0.0
VELOCITY (fps)	2100	1933	1774	1625	1488	1363	1254
ENERGY (ft.-lbs.)	2937	2488	2096	1760	1474	1238	1047
TRAJ: 100 yds. zero	-1.5"	0.0	-7.8"	-26.7"	-58.8"	-106.6"	-173.3"
TRAJ: 200 yds. zero	-1.5"	3.9"	0.0	-15.0"	-43.2"	-87.1"	-149.8"
TRAJ: 300 yds. zero	-1.5"	8.9"	10.0"	0.0	-23.2"	-62.1"	-119.8"
TRAJ: 400 yds. zero	-1.5"	14.7"	21.6"	17.4"	0.0	-33.1"	-85.1"
TRAJ: 500 yds. zero	-1.5"	21.3"	34.8"	37.3"	26.5"	0.0	-45.3"
TRAJ: 600 yds. zero	-1.5"	28.9"	49.9"	59.9"	56.7"	37.8"	0.0
VELOCITY (fps)	2000	1838	1685	1542	1412	1297	1197
ENERGY (ft.-lbs.)	2664	2249	1891	1585	1329	1120	955
TRAJ: 100 yds. zero	-1.5"	0.0	-8.8"	-29.9"	-65.6"	-118.9"	-192.8"
TRAJ: 200 yds. zero	-1.5"	4.4"	0.0	-16.7"	-48.0"	-96.8"	-166.4"
TRAJ: 300 yds. zero	-1.5"	10.0"	11.1"	0.0	-25.8"	-69.0"	-133.0"
TRAJ: 400 yds. zero	-1.5"	16.4"	24.0"	19.3"	0.0	-36.8"	-94.4"
TRAJ: 500 yds. zero	-1.5"	23.8"	38.7"	41.4"	29.4"	0.0	-50.2"
TRAJ: 600 yds. zero	-1.5"	32.1"	55.5"	66.5"	62.9"	41.8"	0.0
VELOCITY (fps)	1900	1743	1597	1461	1340	1234	1146
ENERGY (ft.-lbs.)	2404	2024	1698	1423	1196	1014	875
TRAJ: 100 yds. zero	-1.5"	0.0	-10.0"	-33.6"	-73.5"	-132.9"	-215.2"
TRAJ: 200 yds. zero	-1.5"	5.0"	0.0	-18.6"	-53.6"	-108.0"	-185.3"
TRAJ: 300 yds. zero	-1.5"	11.2"	12.4"	0.0	-28.7"	-76.9"	-148.0"
TRAJ: 400 yds. zero	-1.5"	18.4"	26.8"	21.6"	0.0	-41.0"	-104.9"
TRAJ: 500 yds. zero	-1.5"	26.6"	43.2"	46.1"	32.8"	0.0	-55.7"
TRAJ: 600 yds. zero	-1.5"	35.9"	61.8"	74.0"	69.9"	46.4"	0.0
VELOCITY (fps)	1800	1649	1510	1383	1271	1176	1100
ENERGY (ft.-lbs.)	2158	1812	1518	1274	1076	922	806
TRAJ: 100 yds. zero	-1.5"	0.0	-11.3"	-37.9"	-82.7"	-149.0"	-240.5"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-20.9"	-60.1"	-120.8"	-206.6"
TRAJ: 300 yds. zero	-1.5"	12.6"	14.0"	0.0	-32.2"	-85.9"	-164.8"
TRAJ: 400 yds. zero	-1.5"	20.7"	30.0"	24.1"	0.0	-45.7"	-116.5"
TRAJ: 500 yds. zero	-1.5"	29.8"	48.3"	51.5"	36.6"	0.0	-61.7"
TRAJ: 600 yds. zero	-1.5"	40.1"	68.9"	82.4"	77.7"	51.4"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1556	1425	1308	1207	1124	1060
ENERGY (ft.-lbs.)	1925	1614	1352	1139	970	842	748
TRAJ: 100 yds. zero	-1.5"	0.0	-12.9"	-42.9"	-93.3"	-167.6"	-269.2"
TRAJ: 200 yds. zero	-1.5"	6.4"	0.0	-23.6"	-67.5"	-135.4"	-230.6"
TRAJ: 300 yds. zero	-1.5"	14.3"	15.7"	0.0	-36.1"	-96.1"	-183.4"
TRAJ: 400 yds. zero	-1.5"	23.3"	33.8"	27.1"	0.0	-51.0"	-129.2"
TRAJ: 500 yds. zero	-1.5"	33.5"	54.2"	57.7"	40.8"	0.0	-68.1"
TRAJ: 600 yds. zero	-1.5"	44.9"	76.9"	91.7"	86.2"	56.7"	0.0
VELOCITY (fps)	1600	1465	1343	1236	1148	1078	1024
ENERGY (ft.-lbs.)	1705	1429	1200	1018	878	774	698
TRAJ: 100 yds. zero	-1.5"	0.0	-14.7"	-48.8"	-105.6"	-188.7"	-301.4"
TRAJ: 200 yds. zero	-1.5"	7.4"	0.0	-26.7"	-76.1"	-151.9"	-257.2"
TRAJ: 300 yds. zero	-1.5"	16.3"	17.8"	0.0	-40.5"	-107.4"	-203.8"
TRAJ: 400 yds. zero	-1.5"	26.4"	38.1"	30.4"	0.0	-56.7"	-143.0"
TRAJ: 500 yds. zero	-1.5"	37.7"	60.8"	64.4"	45.4"	0.0	-74.9"
TRAJ: 600 yds. zero	-1.5"	50.2"	85.7"	101.9"	95.3"	62.4"	0.0
VELOCITY (fps)	1500	1374	1263	1170	1096	1037	990
ENERGY (ft.-lbs.)	1499	1258	1063	912	799	716	653
TRAJ: 100 yds. zero	-1.5"	0.0	-16.9"	-55.6"	-119.8"	-212.6"	-337.1"
TRAJ: 200 yds. zero	-1.5"	8.5"	0.0	-30.3"	-85.9"	-170.3"	-286.3"
TRAJ: 300 yds. zero	-1.5"	18.5"	20.2"	0.0	-45.6"	-119.9"	-225.8"
TRAJ: 400 yds. zero	-1.5"	29.9"	42.9"	34.2"	0.0	-62.9"	-157.5"
TRAJ: 500 yds. zero	-1.5"	42.5"	68.1"	71.9"	50.3"	0.0	-82.0"
TRAJ: 600 yds. zero	-1.5"	56.2"	95.4"	112.9"	105.0"	68.3"	0.0

375 CALIBER (.375" Dia.) 300 GRAIN FULL METAL JACKET ROUND NOSE
SECTIONAL DENSITY: .305 BALLISTIC COEFFICIENT: .275

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2900	2567	2258	1971	1707	1473	1276
ENERGY (ft.-lbs.)	5601	4390	3396	2586	1941	1445	1084
TRAJ: 100 yds. zero	-1.5"	0.0	-3.8"	-14.5"	-34.1"	-65.9"	-113.8"
TRAJ: 200 yds. zero	-1.5"	1.9"	0.0	-8.8"	-26.5"	-56.4"	-102.4"
TRAJ: 300 yds. zero	-1.5"	4.8"	5.8"	0.0	-14.9"	-41.8"	-84.9"
TRAJ: 400 yds. zero	-1.5"	8.5"	13.3"	11.1"	0.0	-23.2"	-62.6"
TRAJ: 500 yds. zero	-1.5"	13.2"	22.5"	25.1"	18.6"	0.0	-34.8"
TRAJ: 600 yds. zero	-1.5"	19.0"	34.1"	42.5"	41.7"	29.0"	0.0
VELOCITY (fps)	2800	2474	2172	1891	1635	1411	1227
ENERGY (ft.-lbs.)	5222	4078	3141	2381	1781	1326	1002
TRAJ: 100 yds. zero	-1.5"	0.0	-4.2"	-15.8"	-37.3"	-71.8"	-124.1"
TRAJ: 200 yds. zero	-1.5"	2.1"	0.0	-9.5"	-28.9"	-61.3"	-111.5"
TRAJ: 300 yds. zero	-1.5"	5.3"	6.3"	0.0	-16.2"	-45.4"	-92.4"
TRAJ: 400 yds. zero	-1.5"	9.3"	14.4"	12.1"	0.0	-25.2"	-68.2"
TRAJ: 500 yds. zero	-1.5"	14.4"	24.5"	27.3"	20.2"	0.0	-37.9"
TRAJ: 600 yds. zero	-1.5"	20.7"	37.2"	46.2"	45.5"	31.6"	0.0
VELOCITY (fps)	2700	2382	2085	1811	1564	1351	1181
ENERGY (ft.-lbs.)	4855	3777	2896	2185	1630	1216	929
TRAJ: 100 yds. zero	-1.5"	0.0	-4.7"	-17.4"	-40.8"	-78.5"	-135.6"
TRAJ: 200 yds. zero	-1.5"	2.3"	0.0	-10.4"	-31.5"	-66.9"	-121.6"
TRAJ: 300 yds. zero	-1.5"	5.8"	6.9"	0.0	-17.6"	-49.6"	-100.8"
TRAJ: 400 yds. zero	-1.5"	10.2"	15.7"	13.2"	0.0	-27.6"	-74.4"
TRAJ: 500 yds. zero	-1.5"	15.7"	26.7"	29.7"	22.0"	0.0	-41.3"
TRAJ: 600 yds. zero	-1.5"	22.6"	40.5"	50.4"	49.6"	34.4"	0.0
VELOCITY (fps)	2600	2288	1999	1733	1495	1294	1139
ENERGY (ft.-lbs.)	4502	3488	2661	2000	1489	1115	865
TRAJ: 100 yds. zero	-1.5"	0.0	-5.2"	-19.1"	-44.7"	-86.1"	-148.4"
TRAJ: 200 yds. zero	-1.5"	2.6"	0.0	-11.4"	-34.4"	-73.1"	-132.9"
TRAJ: 300 yds. zero	-1.5"	6.4"	7.6"	0.0	-19.3"	-54.2"	-110.2"
TRAJ: 400 yds. zero	-1.5"	11.2"	17.2"	14.4"	0.0	-30.2"	-81.3"
TRAJ: 500 yds. zero	-1.5"	17.2"	29.3"	32.5"	24.1"	0.0	-45.1"
TRAJ: 600 yds. zero	-1.5"	24.7"	44.3"	55.1"	54.2"	37.6"	0.0
VELOCITY (fps)	2500	2195	1913	1655	1428	1240	1102
ENERGY (ft.-lbs.)	4163	3210	2437	1824	1357	1024	808
TRAJ: 100 yds. zero	-1.5"	0.0	-5.8"	-21.1"	-49.2"	-94.6"	-162.8"
TRAJ: 200 yds. zero	-1.5"	2.9"	0.0	-12.5"	-37.7"	-80.2"	-145.5"
TRAJ: 300 yds. zero	-1.5"	7.0"	8.3"	0.0	-21.1"	-59.5"	-120.6"
TRAJ: 400 yds. zero	-1.5"	12.3"	18.9"	15.8"	0.0	-33.1"	-88.9"
TRAJ: 500 yds. zero	-1.5"	18.9"	32.1"	35.7"	26.5"	0.0	-49.3"
TRAJ: 600 yds. zero	-1.5"	27.1"	48.5"	60.3"	59.3"	41.0"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2400	2102	1827	1578	1363	1190	1068
ENERGY (ft.-lbs.)	3836	2944	2224	1659	1237	943	760
TRAJ: 100 yds. zero	-1.5"	0.0	-6.4"	-23.3"	-54.3"	-104.2"	-178.7"
TRAJ: 200 yds. zero	-1.5"	3.2"	0.0	-13.7"	-41.5"	-88.2"	-159.5"
TRAJ: 300 yds. zero	-1.5"	7.8"	9.1"	0.0	-23.2"	-65.3"	-132.1"
TRAJ: 400 yds. zero	-1.5"	13.6"	20.7"	17.4"	0.0	-36.3"	-97.3"
TRAJ: 500 yds. zero	-1.5"	20.8"	35.3"	39.2"	29.1"	0.0	-53.7"
TRAJ: 600 yds. zero	-1.5"	29.8"	53.2"	66.0"	64.8"	44.7"	0.0
VELOCITY (fps)	2300	2009	1742	1504	1301	1144	1038
ENERGY (ft.-lbs.)	3523	2689	2022	1506	1127	872	717
TRAJ: 100 yds. zero	-1.5"	0.0	-7.2"	-25.9"	-60.1"	-115.1"	-196.4"
TRAJ: 200 yds. zero	-1.5"	3.6"	0.0	-15.1"	-45.8"	-97.1"	-174.9"
TRAJ: 300 yds. zero	-1.5"	8.6"	10.1"	0.0	-25.6"	-71.9"	-144.6"
TRAJ: 400 yds. zero	-1.5"	15.0"	22.9"	19.2"	0.0	-39.9"	-106.2"
TRAJ: 500 yds. zero	-1.5"	23.0"	38.9"	43.2"	31.9"	0.0	-58.3"
TRAJ: 600 yds. zero	-1.5"	32.7"	58.3"	72.3"	70.8"	48.6"	0.0
VELOCITY (fps)	2200	1917	1659	1431	1242	1103	1010
ENERGY (ft.-lbs.)	3224	2448	1832	1364	1028	811	679
TRAJ: 100 yds. zero	-1.5"	0.0	-8.0"	-28.8"	-66.7"	-127.2"	-215.8"
TRAJ: 200 yds. zero	-1.5"	4.0"	0.0	-16.7"	-50.6"	-107.1"	-191.7"
TRAJ: 300 yds. zero	-1.5"	9.6"	11.2"	0.0	-28.3"	-79.2"	-158.2"
TRAJ: 400 yds. zero	-1.5"	16.7"	25.3"	21.2"	0.0	-43.9"	-115.8"
TRAJ: 500 yds. zero	-1.5"	25.4"	42.9"	47.5"	35.1"	0.0	-63.1"
TRAJ: 600 yds. zero	-1.5"	36.0"	63.9"	79.1"	77.2"	52.6"	0.0
VELOCITY (fps)	2100	1825	1576	1361	1189	1067	985
ENERGY (ft.-lbs.)	2937	2218	1655	1234	941	758	646
TRAJ: 100 yds. zero	-1.5"	0.0	-9.0"	-32.1"	-74.1"	-140.8"	-237.0"
TRAJ: 200 yds. zero	-1.5"	4.5"	0.0	-18.6"	-56.1"	-118.2"	-210.0"
TRAJ: 300 yds. zero	-1.5"	10.7"	12.4"	0.0	-31.3"	-87.2"	-172.8"
TRAJ: 400 yds. zero	-1.5"	18.5"	28.1"	23.5"	0.0	-48.1"	-125.9"
TRAJ: 500 yds. zero	-1.5"	28.2"	47.3"	52.3"	38.5"	0.0	-68.1"
TRAJ: 600 yds. zero	-1.5"	39.5"	70.0"	86.4"	83.9"	56.8"	0.0
VELOCITY (fps)	2000	1734	1496	1295	1140	1035	961
ENERGY (ft.-lbs.)	2664	2002	1491	1116	865	713	615
TRAJ: 100 yds. zero	-1.5"	0.0	-10.1"	-35.9"	-82.6"	-155.8"	-260.2"
TRAJ: 200 yds. zero	-1.5"	5.1"	0.0	-20.7"	-62.3"	-130.5"	-229.8"
TRAJ: 300 yds. zero	-1.5"	12.0"	13.8"	0.0	-34.7"	-95.9"	-188.3"
TRAJ: 400 yds. zero	-1.5"	20.6"	31.1"	26.0"	0.0	-52.6"	-136.3"
TRAJ: 500 yds. zero	-1.5"	31.2"	52.2"	57.6"	42.1"	0.0	-73.2"
TRAJ: 600 yds. zero	-1.5"	43.4"	76.6"	94.2"	90.9"	61.0"	0.0
VELOCITY (fps)	1900	1643	1418	1232	1096	1005	939
ENERGY (ft.-lbs.)	2404	1799	1339	1011	801	673	587
TRAJ: 100 yds. zero	-1.5"	0.0	-11.5"	-40.3"	-92.2"	-172.5"	-285.4"
TRAJ: 200 yds. zero	-1.5"	5.7"	0.0	-23.1"	-69.2"	-143.8"	-251.0"
TRAJ: 300 yds. zero	-1.5"	13.4"	15.4"	0.0	-38.4"	-105.2"	-204.7"
TRAJ: 400 yds. zero	-1.5"	23.0"	34.6"	28.8"	0.0	-57.2"	-147.1"
TRAJ: 500 yds. zero	-1.5"	34.5"	57.5"	63.1"	45.8"	0.0	-78.4"
TRAJ: 600 yds. zero	-1.5"	47.6"	83.7"	102.4"	98.1"	65.4"	0.0
VELOCITY (fps)	1800	1554	1343	1175	1058	978	917
ENERGY (ft.-lbs.)	2158	1609	1200	919	745	637	561
TRAJ: 100 yds. zero	-1.5"	0.0	-13.0"	-45.4"	-102.9"	-190.7"	-312.8"
TRAJ: 200 yds. zero	-1.5"	6.5"	0.0	-25.9"	-76.9"	-158.2"	-273.8"
TRAJ: 300 yds. zero	-1.5"	15.1"	17.3"	0.0	-42.4"	-115.1"	-222.1"
TRAJ: 400 yds. zero	-1.5"	25.7"	38.5"	31.8"	0.0	-62.1"	-158.5"
TRAJ: 500 yds. zero	-1.5"	38.1"	63.3"	69.0"	49.7"	0.0	-84.0"
TRAJ: 600 yds. zero	-1.5"	52.1"	91.3"	111.0"	105.6"	70.0"	0.0
VELOCITY (fps)	1700	1467	1271	1123	1023	953	897
ENERGY (ft.-lbs.)	1925	1433	1076	840	698	604	535
TRAJ: 100 yds. zero	-1.5"	0.0	-14.8"	-51.1"	-114.8"	-210.6"	-342.4"
TRAJ: 200 yds. zero	-1.5"	7.4"	0.0	-29.0"	-85.3"	-173.7"	-298.2"
TRAJ: 300 yds. zero	-1.5"	17.0"	19.3"	0.0	-46.7"	-125.4"	-240.2"
TRAJ: 400 yds. zero	-1.5"	28.7"	42.6"	35.0"	0.0	-67.1"	-170.2"
TRAJ: 500 yds. zero	-1.5"	42.1"	69.5"	75.2"	53.7"	0.0	-89.7"
TRAJ: 600 yds. zero	-1.5"	57.1"	99.4"	120.1"	113.5"	74.8"	0.0

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1600	1381	1204	1077	992	928	876
ENERGY (ft.-lbs.)	1705	1270	965	773	655	574	511
TRAJ: 100 yds. zero	-1.5"	0.0	-16.8"	-57.6"	-128.0"	-232.3"	-374.7"
TRAJ: 200 yds. zero	-1.5"	8.4"	0.0	-32.4"	-94.3"	-190.2"	-324.2"
TRAJ: 300 yds. zero	-1.5"	19.2"	21.6"	0.0	-51.1"	-136.2"	-259.4"
TRAJ: 400 yds. zero	-1.5"	32.0"	47.2"	38.3"	0.0	-72.3"	-182.7"
TRAJ: 500 yds. zero	-1.5"	46.5"	76.1"	81.7"	57.9"	0.0	-95.9"
TRAJ: 600 yds. zero	-1.5"	62.4"	108.1"	129.7"	121.8"	79.9"	0.0
VELOCITY (fps)	1500	1298	1142	1036	962	905	856
ENERGY (ft.-lbs.)	1499	1122	869	715	617	545	488
TRAJ: 100 yds. zero	-1.5"	0.0	-19.2"	-64.9"	-142.4"	-255.9"	-409.7"
TRAJ: 200 yds. zero	-1.5"	9.6"	0.0	-36.1"	-104.0"	-207.9"	-352.1"
TRAJ: 300 yds. zero	-1.5"	21.6"	24.1"	0.0	-55.8"	-147.7"	-279.8"
TRAJ: 400 yds. zero	-1.5"	35.6"	52.0"	41.9"	0.0	-77.9"	-196.1"
TRAJ: 500 yds. zero	-1.5"	51.2"	83.2"	88.6"	62.4"	0.0	-102.6"
TRAJ: 600 yds. zero	-1.5"	68.3"	117.4"	139.9"	130.8"	85.5"	0.0

416 CALIBER (.416" Dia.) 400 GRAIN ROUND NOSE
SECTIONAL DENSITY: .330 BALLISTIC COEFFICIENT: .311

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2700	2556	2417	2282	2152	2025	1904
ENERGY (ft.-lbs.)	6474	5803	5189	4626	4112	3643	3218
TRAJ: 50 yds. zero	-1.5"	0.0	0.2"	-1.1"	-4.1"	-9.0"	-16.0"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.4"	-4.5"	-9.4"	-16.5"
TRAJ: 150 yds. zero	-1.5"	0.4"	0.9"	0.0	-2.6"	-7.1"	-13.7"
TRAJ: 200 yds. zero	-1.5"	1.0"	2.2"	2.0"	0.0	-3.8"	-9.8"
TRAJ: 250 yds. zero	-1.5"	1.8"	3.8"	4.3"	3.1"	0.0	-5.2"
TRAJ: 300 yds. zero	-1.5"	2.7"	5.5"	6.8"	6.5"	4.3"	0.0
VELOCITY (fps)	2600	2460	2323	2191	2064	1941	1822
ENERGY (ft.-lbs.)	6003	5372	4794	4265	3782	3344	2949
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.5"	-4.8"	-10.2"	-18.0"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-1.6"	-5.0"	-10.4"	-18.1"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.1"	0.0	-2.9"	-7.8"	-15.0"
TRAJ: 200 yds. zero	-1.5"	1.2"	2.5"	2.1"	0.0	-4.2"	-10.7"
TRAJ: 250 yds. zero	-1.5"	2.0"	4.2"	4.7"	3.4"	0.0	-5.7"
TRAJ: 300 yds. zero	-1.5"	3.0"	6.0"	7.5"	7.1"	4.7"	0.0
VELOCITY (fps)	2500	2363	2229	2101	1976	1856	1741
ENERGY (ft.-lbs.)	5550	4957	4414	3918	3468	3060	2693
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-1.9"	-5.6"	-11.6"	-20.2"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.8"	-5.5"	-11.5"	-20.0"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.2"	0.0	-3.2"	-8.5"	-16.4"
TRAJ: 200 yds. zero	-1.5"	1.4"	2.8"	2.4"	0.0	-4.6"	-11.7"
TRAJ: 250 yds. zero	-1.5"	2.3"	4.6"	5.1"	3.7"	0.0	-6.2"
TRAJ: 300 yds. zero	-1.5"	3.4"	6.7"	8.2"	7.8"	5.2"	0.0
VELOCITY (fps)	2400	2266	2136	2010	1889	1772	1661
ENERGY (ft.-lbs.)	5115	4559	4050	3587	3168	2790	2451
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.3"	-6.5"	-13.2"	-22.7"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.0"	-6.2"	-12.8"	-22.1"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.3"	0.0	-3.5"	-9.4"	-18.1"
TRAJ: 200 yds. zero	-1.5"	1.6"	3.1"	2.6"	0.0	-5.1"	-12.9"
TRAJ: 250 yds. zero	-1.5"	2.6"	5.1"	5.6"	4.0"	0.0	-6.8"
TRAJ: 300 yds. zero	-1.5"	3.8"	7.4"	9.1"	8.6"	5.7"	0.0
VELOCITY (fps)	2300	2169	2042	1920	1802	1690	1583
ENERGY (ft.-lbs.)	4698	4177	3703	3272	2884	2535	2225
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-2.8"	-7.6"	-15.1"	-25.6"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.3"	-6.9"	-14.2"	-24.5"
TRAJ: 150 yds. zero	-1.5"	0.9"	1.5"	0.0	-3.9"	-10.4"	-20.0"
TRAJ: 200 yds. zero	-1.5"	1.9"	3.4"	2.9"	0.0	-5.6"	-14.2"
TRAJ: 250 yds. zero	-1.5"	3.0"	5.7"	6.2"	4.5"	0.0	-7.5"
TRAJ: 300 yds. zero	-1.5"	4.3"	8.2"	10.0"	9.5"	6.3"	0.0
VELOCITY (fps)	2200	2072	1949	1830	1716	1608	1506
ENERGY (ft.-lbs.)	4298	3813	3372	2973	2615	2296	2014
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.3"	-8.8"	-17.1"	-28.9"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.6"	-7.7"	-15.8"	-27.3"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.7"	0.0	-4.3"	-11.6"	-22.2"
TRAJ: 200 yds. zero	-1.5"	2.2"	3.9"	3.2"	0.0	-6.2"	-15.7"
TRAJ: 250 yds. zero	-1.5"	3.4"	6.3"	6.9"	4.9"	0.0	-8.3"
TRAJ: 300 yds. zero	-1.5"	4.8"	9.1"	11.1"	10.5"	6.9"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2100	1976	1856	1741	1631	1528	1432
ENERGY (ft.-lbs.)	3916	3466	3058	2691	2363	2074	1820
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.0"	-10.1"	-19.5"	-32.6"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-2.9"	-8.7"	-17.7"	-30.4"
TRAJ: 150 yds. zero	-1.5"	1.3"	1.9"	0.0	-4.8"	-12.9"	-24.7"
TRAJ: 200 yds. zero	-1.5"	2.5"	4.3"	3.6"	0.0	-6.9"	-17.5"
TRAJ: 250 yds. zero	-1.5"	3.9"	7.1"	7.7"	5.5"	0.0	-9.2"
TRAJ: 300 yds. zero	-1.5"	5.4"	10.1"	12.3"	11.6"	7.7"	0.0
VELOCITY (fps)	2000	1879	1763	1653	1548	1450	1360
ENERGY (ft.-lbs.)	3552	3136	2761	2426	2128	1868	1642
TRAJ: 50 yds. zero	-1.5"	0.0	-1.0"	-4.7"	-11.7"	-22.2"	-37.0"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.3"	-9.7"	-19.8"	-34.1"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.2"	0.0	-5.4"	-14.4"	-27.5"
TRAJ: 200 yds. zero	-1.5"	2.9"	4.9"	4.0"	0.0	-7.7"	-19.5"
TRAJ: 250 yds. zero	-1.5"	4.4"	7.9"	8.6"	6.1"	0.0	-10.3"
TRAJ: 300 yds. zero	-1.5"	6.2"	11.4"	13.8"	13.0"	8.6"	0.0
VELOCITY (fps)	1900	1783	1672	1566	1467	1375	1291
ENERGY (ft.-lbs.)	3206	2824	2482	2178	1911	1679	1481
TRAJ: 50 yds. zero	-1.5"	0.0	-1.2"	-5.6"	-13.5"	-25.4"	-42.0"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.7"	-11.0"	-22.3"	-38.3"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.5"	0.0	-6.0"	-16.1"	-30.8"
TRAJ: 200 yds. zero	-1.5"	3.4"	5.5"	4.5"	0.0	-8.6"	-21.7"
TRAJ: 250 yds. zero	-1.5"	5.1"	8.9"	9.7"	6.9"	0.0	-11.5"
TRAJ: 300 yds. zero	-1.5"	7.0"	12.8"	15.4"	14.5"	9.5"	0.0

416 CALIBER (.416" Dia.) 400 GRAIN FULL METAL JACKET ROUND NOSE
SECTIONAL DENSITY: .330 BALLISTIC COEFFICIENT: .319

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2700	2560	2424	2292	2165	2041	1922
ENERGY (ft.-lbs.)	6474	5819	5218	4667	4161	3700	3280
TRAJ: 50 yds. zero	-1.5"	0.0	0.2"	-1.1"	-4.1"	-8.9"	-15.8"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.4"	-4.4"	-9.3"	-16.3"
TRAJ: 150 yds. zero	-1.5"	0.4"	0.9"	0.0	-2.6"	-7.0"	-13.5"
TRAJ: 200 yds. zero	-1.5"	1.0"	2.2"	1.9"	0.0	-3.8"	-9.7"
TRAJ: 250 yds. zero	-1.5"	1.8"	3.7"	4.2"	3.0"	0.0	-5.1"
TRAJ: 300 yds. zero	-1.5"	2.6"	5.4"	6.8"	6.4"	4.3"	0.0
VELOCITY (fps)	2600	2463	2330	2201	2076	1956	1840
ENERGY (ft.-lbs.)	6003	5387	4821	4303	3829	3397	3005
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.5"	-4.8"	-10.1"	-17.8"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-1.6"	-4.9"	-10.3"	-18.0"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.0"	0.0	-2.8"	-7.7"	-14.8"
TRAJ: 200 yds. zero	-1.5"	1.2"	2.5"	2.1"	0.0	-4.1"	-10.6"
TRAJ: 250 yds. zero	-1.5"	2.0"	4.1"	4.6"	3.3"	0.0	-5.6"
TRAJ: 300 yds. zero	-1.5"	3.0"	6.0"	7.4"	7.0"	4.7"	0.0
VELOCITY (fps)	2500	2366	2236	2110	1988	1871	1758
ENERGY (ft.-lbs.)	5550	4971	4440	3954	3511	3109	2745
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-1.8"	-5.6"	-11.5"	-20.0"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.8"	-5.5"	-11.4"	-19.8"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.2"	0.0	-3.1"	-8.5"	-16.3"
TRAJ: 200 yds. zero	-1.5"	1.4"	2.7"	2.3"	0.0	-4.5"	-11.6"
TRAJ: 250 yds. zero	-1.5"	2.3"	4.6"	5.1"	3.6"	0.0	-6.1"
TRAJ: 300 yds. zero	-1.5"	3.3"	6.6"	8.1"	7.7"	5.1"	0.0
VELOCITY (fps)	2400	2269	2142	2019	1901	1787	1678
ENERGY (ft.-lbs.)	5115	4572	4075	3621	3208	2835	2500
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.3"	-6.5"	-13.1"	-22.5"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.0"	-6.1"	-12.6"	-21.9"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.3"	0.0	-3.5"	-9.3"	-17.9"
TRAJ: 200 yds. zero	-1.5"	1.6"	3.1"	2.6"	0.0	-5.0"	-12.7"
TRAJ: 250 yds. zero	-1.5"	2.6"	5.1"	5.6"	4.0"	0.0	-6.7"
TRAJ: 300 yds. zero	-1.5"	3.7"	7.3"	9.0"	8.5"	5.6"	0.0
VELOCITY (fps)	2300	2172	2048	1929	1814	1703	1599
ENERGY (ft.-lbs.)	4698	4190	3725	3303	2921	2577	2269
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-2.8"	-7.5"	-14.9"	-25.3"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.2"	-6.8"	-14.1"	-24.3"
TRAJ: 150 yds. zero	-1.5"	0.9"	1.5"	0.0	-3.8"	-10.3"	-19.8"
TRAJ: 200 yds. zero	-1.5"	1.9"	3.4"	2.9"	0.0	-5.5"	-14.0"
TRAJ: 250 yds. zero	-1.5"	3.0"	5.6"	6.2"	4.4"	0.0	-7.4"
TRAJ: 300 yds. zero	-1.5"	4.2"	8.1"	9.9"	9.4"	6.2"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2200	2075	1955	1839	1727	1621	1521
ENERGY (ft.-lbs.)	4298	3824	3393	3002	2649	2334	2054
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.3"	-8.7"	-17.0"	-28.6"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.5"	-7.6"	-15.7"	-27.0"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.7"	0.0	-4.3"	-11.4"	-21.9"
TRAJ: 200 yds. zero	-1.5"	2.2"	3.8"	3.2"	0.0	-6.1"	-15.5"
TRAJ: 250 yds. zero	-1.5"	3.4"	6.3"	6.9"	4.9"	0.0	-8.2"
TRAJ: 300 yds. zero	-1.5"	4.8"	9.0"	11.0"	10.4"	6.8"	0.0
VELOCITY (fps)	2100	1979	1862	1749	1642	1541	1446
ENERGY (ft.-lbs.)	3916	3476	3077	2717	2395	2108	1856
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.0"	-10.0"	-19.3"	-32.3"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-2.9"	-8.6"	-17.5"	-30.1"
TRAJ: 150 yds. zero	-1.5"	1.3"	1.9"	0.0	-4.8"	-12.7"	-24.4"
TRAJ: 200 yds. zero	-1.5"	2.5"	4.3"	3.6"	0.0	-6.8"	-17.3"
TRAJ: 250 yds. zero	-1.5"	3.9"	7.0"	7.6"	5.4"	0.0	-9.1"
TRAJ: 300 yds. zero	-1.5"	5.4"	10.0"	12.2"	11.5"	7.6"	0.0
VELOCITY (fps)	2000	1882	1769	1661	1558	1462	1373
ENERGY (ft.-lbs.)	3552	3146	2779	2450	2157	1898	1674
TRAJ: 50 yds. zero	-1.5"	0.0	-1.0"	-4.7"	-11.6"	-22.0"	-36.6"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.3"	-9.7"	-19.7"	-33.7"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.2"	0.0	-5.3"	-14.2"	-27.2"
TRAJ: 200 yds. zero	-1.5"	2.9"	4.8"	4.0"	0.0	-7.6"	-19.2"
TRAJ: 250 yds. zero	-1.5"	4.4"	7.9"	8.5"	6.1"	0.0	-10.1"
TRAJ: 300 yds. zero	-1.5"	6.1"	11.2"	13.6"	12.8"	8.4"	0.0
VELOCITY (fps)	1900	1786	1677	1574	1477	1386	1303
ENERGY (ft.-lbs.)	3206	2833	2498	2199	1936	1706	1509
TRAJ: 50 yds. zero	-1.5"	0.0	-1.2"	-5.5"	-13.4"	-25.2"	-41.5"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.7"	-10.9"	-22.1"	-37.9"
TRAJ: 150 yds. zero	-1.5"	1.8"	2.5"	0.0	-6.0"	-16.0"	-30.5"
TRAJ: 200 yds. zero	-1.5"	3.3"	5.5"	4.5"	0.0	-8.5"	-21.5"
TRAJ: 250 yds. zero	-1.5"	5.0"	8.9"	9.6"	6.8"	0.0	-11.3"
TRAJ: 300 yds. zero	-1.5"	6.9"	12.6"	15.2"	14.3"	9.4"	0.0

44 CALIBER (.430" Dia.) 265 GRAIN FLAT POINT
SECTIONAL DENSITY: .205 BALLISTIC COEFFICIENT: .189

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2200	1992	1796	1615	1450	1306	1186
ENERGY (ft.-lbs.)	2847	2334	1898	1534	1237	1003	827
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.1"	-10.8"	-21.8"	-37.8"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-3.1"	-9.5"	-20.0"	-35.7"
TRAJ: 150 yds. zero	-1.5"	1.4"	2.0"	0.0	-5.4"	-14.9"	-29.6"
TRAJ: 200 yds. zero	-1.5"	2.7"	4.7"	4.0"	0.0	-8.2"	-21.5"
TRAJ: 250 yds. zero	-1.5"	4.4"	8.0"	9.0"	6.6"	0.0	-11.7"
TRAJ: 300 yds. zero	-1.5"	6.3"	11.9"	14.8"	14.3"	9.7"	0.0
VELOCITY (fps)	2100	1898	1708	1534	1379	1245	1138
ENERGY (ft.-lbs.)	2594	2118	1717	1385	1119	913	763
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-4.8"	-12.4"	-24.7"	-42.5"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.4"	-10.6"	-22.4"	-39.7"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.3"	0.0	-6.0"	-16.6"	-32.8"
TRAJ: 200 yds. zero	-1.5"	3.1"	5.3"	4.5"	0.0	-9.1"	-23.8"
TRAJ: 250 yds. zero	-1.5"	4.9"	8.9"	10.0"	7.3"	0.0	-12.9"
TRAJ: 300 yds. zero	-1.5"	7.1"	13.2"	16.4"	15.9"	10.8"	0.0
VELOCITY (fps)	2000	1804	1622	1456	1311	1190	1096
ENERGY (ft.-lbs.)	2353	1914	1547	1248	1011	833	707
TRAJ: 50 yds. zero	-1.5"	0.0	-1.2"	-5.7"	-14.3"	-28.0"	-47.8"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.9"	-11.9"	-25.0"	-44.3"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.6"	0.0	-6.7"	-18.5"	-36.5"
TRAJ: 200 yds. zero	-1.5"	3.6"	6.0"	5.0"	0.0	-10.1"	-26.4"
TRAJ: 250 yds. zero	-1.5"	5.6"	10.0"	11.1"	8.1"	0.0	-14.2"
TRAJ: 300 yds. zero	-1.5"	8.0"	14.8"	18.2"	17.6"	11.9"	0.0
VELOCITY (fps)	1900	1711	1536	1381	1247	1140	1059
ENERGY (ft.-lbs.)	2124	1721	1389	1121	915	764	660
TRAJ: 50 yds. zero	-1.5"	0.0	-1.5"	-6.7"	-16.4"	-31.8"	-53.8"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.4"	-13.4"	-28.1"	-49.3"
TRAJ: 150 yds. zero	-1.5"	2.2"	3.0"	0.0	-7.5"	-20.7"	-40.5"
TRAJ: 200 yds. zero	-1.5"	4.1"	6.7"	5.7"	0.0	-11.3"	-29.2"
TRAJ: 250 yds. zero	-1.5"	6.4"	11.2"	12.4"	9.0"	0.0	-15.7"
TRAJ: 300 yds. zero	-1.5"	9.0"	16.4"	20.2"	19.4"	13.1"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1800	1618	1453	1308	1188	1095	1026
ENERGY (ft.-lbs.)	1906	1541	1242	1007	830	705	619
TRAJ: 50 yds. zero	-1.5"	0.0	-1.8"	-7.8"	-18.8"	-36.1"	-60.4"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-5.0"	-15.2"	-31.5"	-54.9"
TRAJ: 150 yds. zero	-1.5"	2.6"	3.4"	0.0	-8.5"	-23.1"	-44.9"
TRAJ: 200 yds. zero	-1.5"	4.7"	7.6"	6.3"	0.0	-12.5"	-32.2"
TRAJ: 250 yds. zero	-1.5"	7.2"	12.6"	13.8"	10.0"	0.0	-17.2"
TRAJ: 300 yds. zero	-1.5"	10.1"	18.3"	22.4"	21.4"	14.3"	0.0
VELOCITY (fps)	1700	1527	1372	1240	1134	1055	995
ENERGY (ft.-lbs.)	1700	1372	1108	905	757	655	583
TRAJ: 50 yds. zero	-1.5"	0.0	-2.2"	-9.1"	-21.6"	-40.9"	-67.8"
TRAJ: 100 yds. zero	-1.5"	1.1"	0.0	-5.7"	-17.2"	-35.3"	-61.1"
TRAJ: 150 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.5"	-25.7"	-49.6"
TRAJ: 200 yds. zero	-1.5"	5.4"	8.6"	7.1"	0.0	-13.8"	-35.3"
TRAJ: 250 yds. zero	-1.5"	8.2"	14.1"	15.4"	11.1"	0.0	-18.7"
TRAJ: 300 yds. zero	-1.5"	11.3"	20.4"	24.8"	23.6"	15.6"	0.0
VELOCITY (fps)	1600	1437	1294	1177	1087	1019	967
ENERGY (ft.-lbs.)	1506	1215	986	815	695	611	550
TRAJ: 50 yds. zero	-1.5"	0.0	-2.7"	-10.6"	-24.8"	-46.3"	-75.9"
TRAJ: 100 yds. zero	-1.5"	1.4"	0.0	-6.6"	-19.4"	-39.5"	-67.7"
TRAJ: 150 yds. zero	-1.5"	3.5"	4.4"	0.0	-10.6"	-28.6"	-54.6"
TRAJ: 200 yds. zero	-1.5"	6.2"	9.7"	8.0"	0.0	-15.3"	-38.6"
TRAJ: 250 yds. zero	-1.5"	9.3"	15.8"	17.1"	12.2"	0.0	-20.3"
TRAJ: 300 yds. zero	-1.5"	12.6"	22.6"	27.3"	25.8"	16.9"	0.0
VELOCITY (fps)	1500	1349	1221	1119	1044	987	940
ENERGY (ft.-lbs.)	1324	1070	876	737	641	573	520
TRAJ: 50 yds. zero	-1.5"	0.0	-3.3"	-12.4"	-28.4"	-52.3"	-84.8"
TRAJ: 100 yds. zero	-1.5"	1.6"	0.0	-7.5"	-21.9"	-44.1"	-74.9"
TRAJ: 150 yds. zero	-1.5"	4.1"	5.0"	0.0	-11.9"	-31.6"	-60.0"
TRAJ: 200 yds. zero	-1.5"	7.1"	10.9"	8.9"	0.0	-16.8"	-42.1"
TRAJ: 250 yds. zero	-1.5"	10.5"	17.6"	19.0"	13.4"	0.0	-22.0"
TRAJ: 300 yds. zero	-1.5"	14.1"	25.0"	30.0"	28.1"	18.4"	0.0
VELOCITY (fps)	1400	1263	1152	1068	1005	955	913
ENERGY (ft.-lbs.)	1153	939	781	672	595	537	491
TRAJ: 50 yds. zero	-1.5"	0.0	-4.0"	-14.4"	-32.5"	-58.9"	-94.6"
TRAJ: 100 yds. zero	-1.5"	2.0"	0.0	-8.5"	-24.6"	-49.0"	-82.7"
TRAJ: 150 yds. zero	-1.5"	4.8"	5.7"	0.0	-13.2"	-34.9"	-65.7"
TRAJ: 200 yds. zero	-1.5"	8.1"	12.3"	9.9"	0.0	-18.3"	-45.9"
TRAJ: 250 yds. zero	-1.5"	11.8"	19.6"	20.9"	14.7"	0.0	-23.9"
TRAJ: 300 yds. zero	-1.5"	15.8"	27.6"	32.9"	30.6"	19.9"	0.0
VELOCITY (fps)	1300	1181	1090	1022	969	925	887
ENERGY (ft.-lbs.)	994	821	699	614	552	503	462
TRAJ: 50 yds. zero	-1.5"	0.0	-4.7"	-16.7"	-37.0"	-66.3"	-105.5"
TRAJ: 100 yds. zero	-1.5"	2.4"	0.0	-9.6"	-27.5"	-54.5"	-91.3"
TRAJ: 150 yds. zero	-1.5"	5.6"	6.4"	0.0	-14.7"	-38.4"	-72.0"
TRAJ: 200 yds. zero	-1.5"	9.2"	13.8"	11.0"	0.0	-20.1"	-50.0"
TRAJ: 250 yds. zero	-1.5"	13.3"	21.8"	23.0"	16.1"	0.0	-25.9"
TRAJ: 300 yds. zero	-1.5"	17.6"	30.4"	36.0"	33.3"	21.6"	0.0
VELOCITY (fps)	1200	1104	1033	977	932	893	858
ENERGY (ft.-lbs.)	847	717	627	562	511	469	433
TRAJ: 50 yds. zero	-1.5"	0.0	-5.6"	-19.3"	-42.1"	-74.6"	-117.9"
TRAJ: 100 yds. zero	-1.5"	2.8"	0.0	-10.9"	-30.8"	-60.6"	-101.0"
TRAJ: 150 yds. zero	-1.5"	6.4"	7.3"	0.0	-16.3"	-42.4"	-79.2"
TRAJ: 200 yds. zero	-1.5"	10.5"	15.4"	12.2"	0.0	-22.1"	-54.8"
TRAJ: 250 yds. zero	-1.5"	14.9"	24.2"	25.4"	17.6"	0.0	-28.3"
TRAJ: 300 yds. zero	-1.5"	19.6"	33.7"	39.6"	36.5"	23.6"	0.0
VELOCITY (fps)	1100	1030	975	930	891	857	825
ENERGY (ft.-lbs.)	712	624	559	509	467	432	400
TRAJ: 50 yds. zero	-1.5"	0.0	-6.7"	-22.5"	-48.2"	-84.8"	-133.1"
TRAJ: 100 yds. zero	-1.5"	3.3"	0.0	-12.4"	-34.9"	-68.1"	-113.1"
TRAJ: 150 yds. zero	-1.5"	7.5"	8.3"	0.0	-18.3"	-47.4"	-88.2"
TRAJ: 200 yds. zero	-1.5"	12.1"	17.4"	13.7"	0.0	-24.6"	-60.8"
TRAJ: 250 yds. zero	-1.5"	17.0"	27.3"	28.4"	19.6"	0.0	-31.3"
TRAJ: 300 yds. zero	-1.5"	22.2"	37.7"	44.1"	40.5"	26.1"	0.0

45 CALIBER (.458" Dia.) 300 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .204 BALLISTIC COEFFICIENT: .197

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2000	1812	1636	1475	1333	1212	1117
ENERGY (ft.-lbs.)	2664	2186	1782	1450	1183	979	831
TRAJ: 50 yds. zero	-1.5"	0.0	-1.2"	-5.6"	-14.0"	-27.3"	-46.6"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.8"	-11.7"	-24.4"	-43.1"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.6"	0.0	-6.6"	-18.0"	-35.5"
TRAJ: 200 yds. zero	-1.5"	3.5"	5.8"	4.9"	0.0	-9.8"	-25.6"
TRAJ: 250 yds. zero	-1.5"	5.5"	9.8"	10.8"	7.9"	0.0	-13.8"
TRAJ: 300 yds. zero	-1.5"	7.8"	14.4"	17.7"	17.1"	11.5"	0.0
VELOCITY (fps)	1900	1718	1550	1398	1267	1159	1077
ENERGY (ft.-lbs.)	2404	1966	1600	1303	1069	895	772
TRAJ: 50 yds. zero	-1.5"	0.0	-1.5"	-6.5"	-16.1"	-31.0"	-52.5"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.4"	-13.2"	-27.4"	-48.1"
TRAJ: 150 yds. zero	-1.5"	2.2"	2.9"	0.0	-7.4"	-20.2"	-39.4"
TRAJ: 200 yds. zero	-1.5"	4.0"	6.6"	5.5"	0.0	-11.0"	-28.4"
TRAJ: 250 yds. zero	-1.5"	6.2"	11.0"	12.1"	8.8"	0.0	-15.2"
TRAJ: 300 yds. zero	-1.5"	8.7"	16.0"	19.7"	18.9"	12.7"	0.0
VELOCITY (fps)	1800	1625	1466	1325	1206	1112	1041
ENERGY (ft.-lbs.)	2158	1759	1431	1169	968	823	721
TRAJ: 50 yds. zero	-1.5"	0.0	-1.8"	-7.7"	-18.5"	-35.3"	-59.1"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-5.0"	-14.9"	-30.8"	-53.7"
TRAJ: 150 yds. zero	-1.5"	2.6"	3.3"	0.0	-8.3"	-22.5"	-43.8"
TRAJ: 200 yds. zero	-1.5"	4.6"	7.4"	6.2"	0.0	-12.2"	-31.3"
TRAJ: 250 yds. zero	-1.5"	7.1"	12.3"	13.5"	9.8"	0.0	-16.7"
TRAJ: 300 yds. zero	-1.5"	9.8"	17.9"	21.9"	20.9"	13.9"	0.0
VELOCITY (fps)	1700	1534	1384	1255	1149	1069	1008
ENERGY (ft.-lbs.)	1925	1566	1276	1049	880	761	677
TRAJ: 50 yds. zero	-1.5"	0.0	-2.2"	-9.0"	-21.2"	-40.1"	-66.4"
TRAJ: 100 yds. zero	-1.5"	1.1"	0.0	-5.7"	-16.8"	-34.6"	-59.8"
TRAJ: 150 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.3"	-25.2"	-48.5"
TRAJ: 200 yds. zero	-1.5"	5.3"	8.4"	7.0"	0.0	-13.5"	-34.5"
TRAJ: 250 yds. zero	-1.5"	8.0"	13.8"	15.1"	10.8"	0.0	-18.3"
TRAJ: 300 yds. zero	-1.5"	11.1"	19.9"	24.2"	23.0"	15.2"	0.0
VELOCITY (fps)	1600	1443	1305	1190	1099	1032	979
ENERGY (ft.-lbs.)	1705	1387	1134	942	805	709	638
TRAJ: 50 yds. zero	-1.5"	0.0	-2.7"	-10.5"	-24.4"	-45.5"	-74.5"
TRAJ: 100 yds. zero	-1.5"	1.3"	0.0	-6.5"	-19.0"	-38.8"	-66.4"
TRAJ: 150 yds. zero	-1.5"	3.5"	4.3"	0.0	-10.4"	-28.0"	-53.5"
TRAJ: 200 yds. zero	-1.5"	6.1"	9.5"	7.8"	0.0	-15.0"	-37.9"
TRAJ: 250 yds. zero	-1.5"	9.1"	15.5"	16.8"	12.0"	0.0	-19.9"
TRAJ: 300 yds. zero	-1.5"	12.4"	22.1"	26.8"	25.3"	16.6"	0.0
VELOCITY (fps)	1500	1354	1230	1130	1055	997	950
ENERGY (ft.-lbs.)	1499	1222	1008	851	741	662	602
TRAJ: 50 yds. zero	-1.5"	0.0	-3.2"	-12.2"	-28.0"	-51.5"	-83.4"
TRAJ: 100 yds. zero	-1.5"	1.6"	0.0	-7.4"	-21.5"	-43.4"	-73.7"
TRAJ: 150 yds. zero	-1.5"	4.1"	4.9"	0.0	-11.7"	-31.1"	-58.9"
TRAJ: 200 yds. zero	-1.5"	7.0"	10.8"	8.8"	0.0	-16.5"	-41.4"
TRAJ: 250 yds. zero	-1.5"	10.3"	17.3"	18.6"	13.2"	0.0	-21.6"
TRAJ: 300 yds. zero	-1.5"	13.9"	24.6"	29.5"	27.6"	18.0"	0.0
VELOCITY (fps)	1400	1268	1160	1077	1015	965	923
ENERGY (ft.-lbs.)	1305	1071	896	773	686	620	567
TRAJ: 50 yds. zero	-1.5"	0.0	-3.9"	-14.3"	-32.0"	-58.1"	-93.2"
TRAJ: 100 yds. zero	-1.5"	2.0"	0.0	-8.4"	-24.2"	-48.4"	-81.5"
TRAJ: 150 yds. zero	-1.5"	4.8"	5.6"	0.0	-13.0"	-34.3"	-64.7"
TRAJ: 200 yds. zero	-1.5"	8.0"	12.1"	9.8"	0.0	-18.1"	-45.2"
TRAJ: 250 yds. zero	-1.5"	11.6"	19.3"	20.6"	14.4"	0.0	-23.5"
TRAJ: 300 yds. zero	-1.5"	15.5"	27.2"	32.4"	30.1"	19.6"	0.0
VELOCITY (fps)	1300	1185	1096	1029	977	933	895
ENERGY (ft.-lbs.)	1126	936	801	706	635	580	534
TRAJ: 50 yds. zero	-1.5"	0.0	-4.7"	-16.6"	-36.6"	-65.5"	-104.2"
TRAJ: 100 yds. zero	-1.5"	2.3"	0.0	-9.5"	-27.2"	-53.8"	-90.1"
TRAJ: 150 yds. zero	-1.5"	5.5"	6.4"	0.0	-14.5"	-37.9"	-71.0"
TRAJ: 200 yds. zero	-1.5"	9.1"	13.6"	10.9"	0.0	-19.8"	-49.3"
TRAJ: 250 yds. zero	-1.5"	13.1"	21.5"	22.7"	15.8"	0.0	-25.6"
TRAJ: 300 yds. zero	-1.5"	17.4"	30.0"	35.5"	32.9"	21.3"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1200	1107	1038	983	939	900	866
ENERGY (ft.-lbs.)	959	817	717	644	587	540	500
TRAJ: 50 yds. zero	-1.5"	0.0	-5.6"	-19.2"	-41.7"	-73.9"	-116.6"
TRAJ: 100 yds. zero	-1.5"	2.8"	0.0	-10.8"	-30.5"	-60.0"	-99.9"
TRAJ: 150 yds. zero	-1.5"	6.4"	7.2"	0.0	-16.1"	-41.9"	-78.3"
TRAJ: 200 yds. zero	-1.5"	10.4"	15.3"	12.1"	0.0	-21.8"	-54.1"
TRAJ: 250 yds. zero	-1.5"	14.8"	24.0"	25.2"	17.4"	0.0	-28.0"
TRAJ: 300 yds. zero	-1.5"	19.4"	33.3"	39.1"	36.1"	23.3"	0.0

45 CALIBER (.458" Dia.) 350 GRAIN ROUND NOSE
SECTIONAL DENSITY: .238 BALLISTIC COEFFICIENT: .189

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2900	2656	2424	2204	1996	1800	1618
ENERGY (ft.-lbs.)	6535	5479	4565	3774	3094	2516	2034
TRAJ: 50 yds. zero	-1.5"	0.0	0.3"	-1.0"	-4.0"	-9.2"	-17.1"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.4"	-4.5"	-9.8"	-17.9"
TRAJ: 150 yds. zero	-1.5"	0.3"	0.9"	0.0	-2.7"	-7.6"	-15.2"
TRAJ: 200 yds. zero	-1.5"	1.0"	2.2"	2.0"	0.0	-4.2"	-11.1"
TRAJ: 250 yds. zero	-1.5"	1.8"	3.9"	4.5"	3.4"	0.0	-6.1"
TRAJ: 300 yds. zero	-1.5"	2.8"	6.0"	7.6"	7.4"	5.1"	0.0
VELOCITY (fps)	2800	2561	2334	2119	1915	1725	1549
ENERGY (ft.-lbs.)	6092	5096	4233	3488	2850	2311	1865
TRAJ: 50 yds. zero	-1.5"	0.0	0.2"	-1.3"	-4.6"	-10.4"	-19.1"
TRAJ: 100 yds. zero	-1.5"	-0.1"	0.0	-1.5"	-5.0"	-10.8"	-19.6"
TRAJ: 150 yds. zero	-1.5"	0.4"	1.0"	0.0	-3.0"	-8.3"	-16.6"
TRAJ: 200 yds. zero	-1.5"	1.2"	2.5"	2.2"	0.0	-4.6"	-12.1"
TRAJ: 250 yds. zero	-1.5"	2.1"	4.3"	5.0"	3.7"	0.0	-6.6"
TRAJ: 300 yds. zero	-1.5"	3.2"	6.5"	8.3"	8.1"	5.5"	0.0
VELOCITY (fps)	2700	2466	2244	2033	1835	1650	1482
ENERGY (ft.-lbs.)	5665	4725	3913	3213	2617	2117	1707
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.6"	-5.4"	-11.7"	-21.3"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-1.7"	-5.5"	-11.9"	-21.5"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.1"	0.0	-3.2"	-9.1"	-18.1"
TRAJ: 200 yds. zero	-1.5"	1.3"	2.8"	2.4"	0.0	-5.0"	-13.3"
TRAJ: 250 yds. zero	-1.5"	2.3"	4.8"	5.4"	4.0"	0.0	-7.2"
TRAJ: 300 yds. zero	-1.5"	3.6"	7.2"	9.1"	8.8"	6.0"	0.0
VELOCITY (fps)	2600	2371	2154	1948	1756	1577	1417
ENERGY (ft.-lbs.)	5253	4369	3605	2950	2395	1933	1560
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-2.0"	-6.2"	-13.3"	-23.8"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.9"	-6.1"	-13.1"	-23.7"
TRAJ: 150 yds. zero	-1.5"	0.7"	1.3"	0.0	-3.6"	-10.0"	-19.9"
TRAJ: 200 yds. zero	-1.5"	1.6"	3.1"	2.7"	0.0	-5.5"	-14.5"
TRAJ: 250 yds. zero	-1.5"	2.7"	5.3"	6.0"	4.4"	0.0	-7.9"
TRAJ: 300 yds. zero	-1.5"	4.0"	7.9"	9.9"	9.7"	6.6"	0.0
VELOCITY (fps)	2500	2276	2064	1864	1677	1506	1354
ENERGY (ft.-lbs.)	4856	4026	3310	2699	2185	1762	1424
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.4"	-7.2"	-15.0"	-26.7"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.1"	-6.8"	-14.5"	-26.2"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-3.9"	-11.0"	-21.9"
TRAJ: 200 yds. zero	-1.5"	1.8"	3.4"	3.0"	0.0	-6.1"	-16.0"
TRAJ: 250 yds. zero	-1.5"	3.0"	5.8"	6.6"	4.8"	0.0	-8.7"
TRAJ: 300 yds. zero	-1.5"	4.5"	8.7"	10.9"	10.7"	7.3"	0.0
VELOCITY (fps)	2400	2181	1974	1780	1600	1436	1294
ENERGY (ft.-lbs.)	4476	3697	3028	2461	1988	1603	1301
TRAJ: 50 yds. zero	-1.5"	0.0	-0.3"	-2.9"	-8.2"	-17.0"	-29.9"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.4"	-7.6"	-16.1"	-29.0"
TRAJ: 150 yds. zero	-1.5"	1.0"	1.6"	0.0	-4.4"	-12.1"	-24.1"
TRAJ: 200 yds. zero	-1.5"	2.1"	3.8"	3.3"	0.0	-6.7"	-17.6"
TRAJ: 250 yds. zero	-1.5"	3.4"	6.5"	7.3"	5.3"	0.0	-9.6"
TRAJ: 300 yds. zero	-1.5"	5.0"	9.7"	12.1"	11.7"	8.0"	0.0
VELOCITY (fps)	2300	2086	1885	1697	1524	1369	1238
ENERGY (ft.-lbs.)	4110	3383	2761	2236	1804	1457	1190
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.5"	-9.5"	-19.2"	-33.6"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.7"	-8.4"	-17.9"	-32.1"
TRAJ: 150 yds. zero	-1.5"	1.2"	1.8"	0.0	-4.8"	-13.4"	-26.7"
TRAJ: 200 yds. zero	-1.5"	2.4"	4.2"	3.6"	0.0	-7.4"	-19.4"
TRAJ: 250 yds. zero	-1.5"	3.8"	7.2"	8.1"	5.9"	0.0	-10.6"
TRAJ: 300 yds. zero	-1.5"	5.6"	10.7"	13.4"	13.0"	8.8"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2200	1992	1796	1615	1450	1306	1186
ENERGY (ft.-lbs.)	3761	3083	2507	2026	1634	1324	1092
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.1"	-10.8"	-21.8"	-37.8"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-3.1"	-9.5"	-20.0"	-35.7"
TRAJ: 150 yds. zero	-1.5"	1.4"	2.0"	0.0	-5.4"	-14.9"	-29.6"
TRAJ: 200 yds. zero	-1.5"	2.7"	4.7"	4.0"	0.0	-8.2"	-21.5"
TRAJ: 250 yds. zero	-1.5"	4.4"	8.0"	9.0"	6.6"	0.0	-11.7"
TRAJ: 300 yds. zero	-1.5"	6.3"	11.9"	14.8"	14.3"	9.7"	0.0
VELOCITY (fps)	2100	1898	1708	1534	1379	1245	1138
ENERGY (ft.-lbs.)	3427	2798	2268	1830	1477	1205	1007
TRAJ: 50 yds. zero	-1.5"	0.0	-0.9"	-4.8"	-12.4"	-24.7"	-42.5"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.4"	-10.6"	-22.4"	-39.7"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.3"	0.0	-6.0"	-16.6"	-32.8"
TRAJ: 200 yds. zero	-1.5"	3.1"	5.3"	4.5"	0.0	-9.1"	-23.8"
TRAJ: 250 yds. zero	-1.5"	4.9"	8.9"	10.0"	7.3"	0.0	-12.9"
TRAJ: 300 yds. zero	-1.5"	7.1"	13.2"	16.4"	15.9"	10.8"	0.0
VELOCITY (fps)	2000	1804	1622	1456	1311	1190	1096
ENERGY (ft.-lbs.)	3108	2528	2043	1648	1335	1100	934
TRAJ: 50 yds. zero	-1.5"	0.0	-1.2"	-5.7"	-14.3"	-28.0"	-47.8"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.9"	-11.9"	-25.0"	-44.3"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.6"	0.0	-6.7"	-18.5"	-36.5"
TRAJ: 200 yds. zero	-1.5"	3.6"	6.0"	5.0"	0.0	-10.1"	-26.4"
TRAJ: 250 yds. zero	-1.5"	5.6"	10.0"	11.1"	8.1"	0.0	-14.2"
TRAJ: 300 yds. zero	-1.5"	8.0"	14.8"	18.2"	17.6"	11.9"	0.0
VELOCITY (fps)	1900	1711	1536	1381	1247	1140	1059
ENERGY (ft.-lbs.)	2805	2274	1834	1481	1208	1009	871
TRAJ: 50 yds. zero	-1.5"	0.0	-1.5"	-6.7"	-16.4"	-31.8"	-53.8"
TRAJ: 100 yds. zero	-1.5"	0.7"	0.0	-4.4"	-13.4"	-28.1"	-49.3"
TRAJ: 150 yds. zero	-1.5"	2.2"	3.0"	0.0	-7.5"	-20.7"	-40.5"
TRAJ: 200 yds. zero	-1.5"	4.1"	6.7"	5.7"	0.0	-11.3"	-29.2"
TRAJ: 250 yds. zero	-1.5"	6.4"	11.2"	12.4"	9.0"	0.0	-15.7"
TRAJ: 300 yds. zero	-1.5"	9.0"	16.4"	20.2"	19.4"	13.1"	0.0
VELOCITY (fps)	1800	1618	1453	1308	1188	1095	1026
ENERGY (ft.-lbs.)	2518	2035	1641	1330	1096	931	817
TRAJ: 50 yds. zero	-1.5"	0.0	-1.8"	-7.8"	-18.8"	-36.1"	-60.4"
TRAJ: 100 yds. zero	-1.5"	0.9"	0.0	-5.0"	-15.2"	-31.5"	-54.9"
TRAJ: 150 yds. zero	-1.5"	2.6"	3.4"	0.0	-8.5"	-23.1"	-44.9"
TRAJ: 200 yds. zero	-1.5"	4.7"	7.6"	6.3"	0.0	-12.5"	-32.2"
TRAJ: 250 yds. zero	-1.5"	7.2"	12.6"	13.8"	10.0"	0.0	-17.2"
TRAJ: 300 yds. zero	-1.5"	10.1"	18.3"	22.4"	21.4"	14.3"	0.0
VELOCITY (fps)	1700	1527	1372	1240	1134	1055	995
ENERGY (ft.-lbs.)	2246	1812	1463	1195	1000	865	770
TRAJ: 50 yds. zero	-1.5"	0.0	-2.2"	-9.1"	-21.6"	-40.9"	-67.8"
TRAJ: 100 yds. zero	-1.5"	1.1"	0.0	-5.7"	-17.2"	-35.3"	-61.1"
TRAJ: 150 yds. zero	-1.5"	3.0"	3.8"	0.0	-9.5"	-25.7"	-49.6"
TRAJ: 200 yds. zero	-1.5"	5.4"	8.6"	7.1"	0.0	-13.8"	-35.3"
TRAJ: 250 yds. zero	-1.5"	8.2"	14.1"	15.4"	11.1"	0.0	-18.7"
TRAJ: 300 yds. zero	-1.5"	11.3"	20.4"	24.8"	23.6"	15.6"	0.0
VELOCITY (fps)	1600	1437	1294	1177	1087	1019	967
ENERGY (ft.-lbs.)	1989	1604	1302	1076	917	807	726
TRAJ: 50 yds. zero	-1.5"	0.0	-2.7"	-10.6"	-24.8"	-46.3"	-75.9"
TRAJ: 100 yds. zero	-1.5"	1.4"	0.0	-6.6"	-19.4"	-39.5"	-67.7"
TRAJ: 150 yds. zero	-1.5"	3.5"	4.4"	0.0	-10.6"	-28.6"	-54.6"
TRAJ: 200 yds. zero	-1.5"	6.2"	9.7"	8.0"	0.0	-15.3"	-38.6"
TRAJ: 250 yds. zero	-1.5"	9.3"	15.8"	17.1"	12.2"	0.0	-20.3"
TRAJ: 300 yds. zero	-1.5"	12.6"	22.6"	27.3"	25.8"	16.9"	0.0
VELOCITY (fps)	1500	1349	1221	1119	1044	987	940
ENERGY (ft.-lbs.)	1748	1414	1158	974	847	756	686
TRAJ: 50 yds. zero	-1.5"	0.0	-3.3"	-12.4"	-28.4"	-52.3"	-84.8"
TRAJ: 100 yds. zero	-1.5"	1.6"	0.0	-7.5"	-21.9"	-44.1"	-74.9"
TRAJ: 150 yds. zero	-1.5"	4.1"	5.0"	0.0	-11.9"	-31.6"	-60.0"
TRAJ: 200 yds. zero	-1.5"	7.1"	10.9"	8.9"	0.0	-16.8"	-42.1"
TRAJ: 250 yds. zero	-1.5"	10.5"	17.6"	19.0"	13.4"	0.0	-22.0"
TRAJ: 300 yds. zero	-1.5"	14.1"	25.0"	30.0"	28.1"	18.4"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1400	1263	1152	1068	1005	955	913
ENERGY (ft.-lbs.)	1523	1240	1032	887	786	709	648
TRAJ: 50 yds. zero	-1.5"	0.0	-4.0"	-14.4"	-32.5"	-58.9"	-94.6"
TRAJ: 100 yds. zero	-1.5"	2.0"	0.0	-8.5"	-24.6"	-49.0"	-82.7"
TRAJ: 150 yds. zero	-1.5"	4.8"	5.7"	0.0	-13.2"	-34.9"	-65.7"
TRAJ: 200 yds. zero	-1.5"	8.1"	12.3"	9.9"	0.0	-18.3"	-45.9"
TRAJ: 250 yds. zero	-1.5"	11.8"	19.6"	20.9"	14.7"	0.0	-23.9"
TRAJ: 300 yds. zero	-1.5"	15.8"	27.6"	32.9"	30.6"	19.9"	0.0
VELOCITY (fps)	1300	1181	1090	1022	969	925	887
ENERGY (ft.-lbs.)	1313	1084	923	811	729	665	611
TRAJ: 50 yds. zero	-1.5"	0.0	-4.7"	-16.7"	-37.0"	-66.3"	-105.5"
TRAJ: 100 yds. zero	-1.5"	2.4"	0.0	-9.6"	-27.5"	-54.5"	-91.3"
TRAJ: 150 yds. zero	-1.5"	5.6"	6.4"	0.0	-14.7"	-38.4"	-72.0"
TRAJ: 200 yds. zero	-1.5"	9.2"	13.8"	11.0"	0.0	-20.1"	-50.0"
TRAJ: 250 yds. zero	-1.5"	13.3"	21.8"	23.0"	16.1"	0.0	-25.9"
TRAJ: 300 yds. zero	-1.5"	17.6"	30.4"	36.0"	33.3"	21.6"	0.0
VELOCITY (fps)	1200	1104	1033	977	932	893	858
ENERGY (ft.-lbs.)	1119	947	828	742	675	620	572
TRAJ: 50 yds. zero	-1.5"	0.0	-5.6"	-19.3"	-42.1"	-74.6"	-117.9"
TRAJ: 100 yds. zero	-1.5"	2.8"	0.0	-10.9"	-30.8"	-60.6"	-101.0"
TRAJ: 150 yds. zero	-1.5"	6.4"	7.3"	0.0	-16.3"	-42.4"	-79.2"
TRAJ: 200 yds. zero	-1.5"	10.5"	15.4"	12.2"	0.0	-22.1"	-54.8"
TRAJ: 250 yds. zero	-1.5"	14.9"	24.2"	25.4"	17.6"	0.0	-28.3"
TRAJ: 300 yds. zero	-1.5"	19.6"	33.7"	39.6"	36.5"	23.6"	0.0
VELOCITY (fps)	1100	1030	975	930	891	857	825
ENERGY (ft.-lbs.)	940	824	739	672	617	570	529
TRAJ: 50 yds. zero	-1.5"	0.0	-6.7"	-22.5"	-48.2"	-84.8"	-133.1"
TRAJ: 100 yds. zero	-1.5"	3.3"	0.0	-12.4"	-34.9"	-68.1"	-113.1"
TRAJ: 150 yds. zero	-1.5"	7.5"	8.3"	0.0	-18.3"	-47.4"	-88.2"
TRAJ: 200 yds. zero	-1.5"	12.1"	17.4"	13.7"	0.0	-24.6"	-60.8"
TRAJ: 250 yds. zero	-1.5"	17.0"	27.3"	28.4"	19.6"	0.0	-31.3"
TRAJ: 300 yds. zero	-1.5"	22.2"	37.7"	44.1"	40.5"	26.1"	0.0

45 CALIBER (.458" Dia.) 500 GRAIN ROUND NOSE
SECTIONAL DENSITY: .341 BALLISTIC COEFFICIENT: .287

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2600	2448	2301	2159	2022	1891	1765
ENERGY (ft.-lbs.)	7504	6652	5877	5174	4539	3967	3457
TRAJ: 50 yds. zero	-1.5"	0.0	0.0	-1.5"	-5.0"	-10.6"	-18.6"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-1.6"	-5.1"	-10.7"	-18.8"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.1"	0.0	-2.9"	-8.0"	-15.5"
TRAJ: 200 yds. zero	-1.5"	1.3"	2.6"	2.2"	0.0	-4.3"	-11.1"
TRAJ: 250 yds. zero	-1.5"	2.1"	4.3"	4.8"	3.5"	0.0	-5.9"
TRAJ: 300 yds. zero	-1.5"	3.1"	6.3"	7.8"	7.4"	4.9"	0.0
VELOCITY (fps)	2500	2351	2208	2069	1935	1808	1686
ENERGY (ft.-lbs.)	6938	6137	5410	4751	4158	3627	3154
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-1.9"	-5.8"	-12.0"	-20.9"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.8"	-5.7"	-11.9"	-20.7"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.2"	0.0	-3.2"	-8.8"	-17.1"
TRAJ: 200 yds. zero	-1.5"	1.5"	2.8"	2.4"	0.0	-4.8"	-12.2"
TRAJ: 250 yds. zero	-1.5"	2.4"	4.7"	5.3"	3.8"	0.0	-6.5"
TRAJ: 300 yds. zero	-1.5"	3.5"	6.9"	8.5"	8.1"	5.4"	0.0
VELOCITY (fps)	2400	2255	2114	1979	1849	1725	1608
ENERGY (ft.-lbs.)	6394	5643	4962	4348	3796	3304	2870
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.4"	-6.7"	-13.7"	-23.5"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.1"	-6.3"	-13.1"	-22.9"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-3.6"	-9.7"	-18.8"
TRAJ: 200 yds. zero	-1.5"	1.7"	3.2"	2.7"	0.0	-5.2"	-13.4"
TRAJ: 250 yds. zero	-1.5"	2.7"	5.3"	5.8"	4.2"	0.0	-7.1"
TRAJ: 300 yds. zero	-1.5"	3.9"	7.6"	9.4"	8.9"	5.9"	0.0
VELOCITY (fps)	2300	2158	2021	1890	1764	1644	1532
ENERGY (ft.-lbs.)	5872	5170	4535	3964	3453	3001	2604
TRAJ: 50 yds. zero	-1.5"	0.0	-0.4"	-2.9"	-7.8"	-15.5"	-26.5"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.3"	-7.1"	-14.6"	-25.4"
TRAJ: 150 yds. zero	-1.5"	1.0"	1.5"	0.0	-4.0"	-10.8"	-20.8"
TRAJ: 200 yds. zero	-1.5"	1.9"	3.5"	3.0"	0.0	-5.8"	-14.8"
TRAJ: 250 yds. zero	-1.5"	3.1"	5.8"	6.5"	4.6"	0.0	-7.8"
TRAJ: 300 yds. zero	-1.5"	4.4"	8.5"	10.4"	9.9"	6.5"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2200	2062	1928	1801	1679	1565	1458
ENERGY (ft.-lbs.)	5373	4718	4128	3600	3130	2717	2358
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.4"	-9.0"	-17.7"	-29.9"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.6"	-7.9"	-16.3"	-28.2"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.7"	0.0	-4.4"	-11.9"	-23.0"
TRAJ: 200 yds. zero	-1.5"	2.3"	4.0"	3.3"	0.0	-6.4"	-16.4"
TRAJ: 250 yds. zero	-1.5"	3.5"	6.5"	7.2"	5.1"	0.0	-8.7"
TRAJ: 300 yds. zero	-1.5"	5.0"	9.4"	11.5"	10.9"	7.2"	0.0
VELOCITY (fps)	2100	1965	1836	1713	1596	1487	1386
ENERGY (ft.-lbs.)	4895	4287	3742	3256	2828	2454	2132
TRAJ: 50 yds. zero	-1.5"	0.0	-0.8"	-4.1"	-10.4"	-20.1"	-33.8"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-3.0"	-8.9"	-18.2"	-31.5"
TRAJ: 150 yds. zero	-1.5"	1.4"	2.0"	0.0	-4.9"	-13.3"	-25.6"
TRAJ: 200 yds. zero	-1.5"	2.6"	4.4"	3.7"	0.0	-7.1"	-18.2"
TRAJ: 250 yds. zero	-1.5"	4.0"	7.3"	8.0"	5.7"	0.0	-9.6"
TRAJ: 300 yds. zero	-1.5"	5.6"	10.5"	12.8"	12.1"	8.0"	0.0
VELOCITY (fps)	2000	1869	1744	1626	1515	1411	1318
ENERGY (ft.-lbs.)	4440	3879	3378	2935	2547	2212	1927
TRAJ: 50 yds. zero	-1.5"	0.0	-1.0"	-4.8"	-12.0"	-22.9"	-38.2"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.4"	-10.0"	-20.4"	-35.3"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.2"	0.0	-5.5"	-14.8"	-28.5"
TRAJ: 200 yds. zero	-1.5"	3.0"	5.0"	4.1"	0.0	-7.9"	-20.3"
TRAJ: 250 yds. zero	-1.5"	4.6"	8.2"	8.9"	6.4"	0.0	-10.7"
TRAJ: 300 yds. zero	-1.5"	6.4"	11.8"	14.3"	13.5"	8.9"	0.0
VELOCITY (fps)	1900	1774	1654	1541	1435	1339	1253
ENERGY (ft.-lbs.)	4007	3492	3035	2634	2287	1990	1742
TRAJ: 50 yds. zero	-1.5"	0.0	-1.3"	-5.7"	-13.8"	-26.2"	-43.4"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.8"	-11.3"	-23.0"	-39.6"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.5"	0.0	-6.2"	-16.6"	-31.9"
TRAJ: 200 yds. zero	-1.5"	3.5"	5.6"	4.7"	0.0	-8.9"	-22.6"
TRAJ: 250 yds. zero	-1.5"	5.2"	9.2"	10.0"	7.1"	0.0	-12.0"
TRAJ: 300 yds. zero	-1.5"	7.2"	13.2"	16.0"	15.1"	10.0"	0.0
VELOCITY (fps)	1800	1679	1564	1457	1359	1270	1193
ENERGY (ft.-lbs.)	3597	3128	2715	2356	2049	1791	1580
TRAJ: 50 yds. zero	-1.5"	0.0	-1.6"	-6.7"	-16.0"	-29.9"	-49.3"
TRAJ: 100 yds. zero	-1.5"	0.8"	0.0	-4.4"	-12.8"	-26.0"	-44.5"
TRAJ: 150 yds. zero	-1.5"	2.2"	2.9"	0.0	-7.0"	-18.7"	-35.8"
TRAJ: 200 yds. zero	-1.5"	4.0"	6.4"	5.2"	0.0	-10.0"	-25.3"
TRAJ: 250 yds. zero	-1.5"	6.0"	10.4"	11.2"	8.0"	0.0	-13.4"
TRAJ: 300 yds. zero	-1.5"	8.2"	14.8"	17.9"	16.9"	11.1"	0.0
VELOCITY (fps)	1700	1584	1476	1376	1285	1206	1139
ENERGY (ft.-lbs.)	3208	2785	2417	2101	1834	1615	1439
TRAJ: 50 yds. zero	-1.5"	0.0	-2.0"	-7.9"	-18.5"	-34.3"	-56.1"
TRAJ: 100 yds. zero	-1.5"	1.0"	0.0	-5.0"	-14.6"	-29.4"	-50.2"
TRAJ: 150 yds. zero	-1.5"	2.6"	3.3"	0.0	-7.9"	-21.1"	-40.3"
TRAJ: 200 yds. zero	-1.5"	4.6"	7.3"	5.9"	0.0	-11.2"	-28.4"
TRAJ: 250 yds. zero	-1.5"	6.9"	11.8"	12.7"	9.0"	0.0	-14.9"
TRAJ: 300 yds. zero	-1.5"	9.4"	16.7"	20.1"	18.9"	12.4"	0.0
VELOCITY (fps)	1600	1490	1389	1298	1217	1148	1090
ENERGY (ft.-lbs.)	2842	2466	2142	1869	1643	1462	1320
TRAJ: 50 yds. zero	-1.5"	0.0	-2.4"	-9.3"	-21.4"	-39.4"	-63.9"
TRAJ: 100 yds. zero	-1.5"	1.2"	0.0	-5.7"	-16.6"	-33.3"	-56.7"
TRAJ: 150 yds. zero	-1.5"	3.1"	3.8"	0.0	-9.0"	-23.8"	-45.3"
TRAJ: 200 yds. zero	-1.5"	5.4"	8.3"	6.7"	0.0	-12.6"	-31.8"
TRAJ: 250 yds. zero	-1.5"	7.9"	13.3"	14.3"	10.1"	0.0	-16.7"
TRAJ: 300 yds. zero	-1.5"	10.7"	18.9"	22.6"	21.2"	13.9"	0.0
VELOCITY (fps)	1500	1398	1305	1223	1153	1095	1047
ENERGY (ft.-lbs.)	2498	2169	1892	1661	1476	1331	1218
TRAJ: 50 yds. zero	-1.5"	0.0	-2.9"	-11.0"	-24.9"	-45.2"	-72.8"
TRAJ: 100 yds. zero	-1.5"	1.5"	0.0	-6.6"	-19.0"	-37.9"	-64.0"
TRAJ: 150 yds. zero	-1.5"	3.7"	4.4"	0.0	-10.2"	-26.9"	-50.8"
TRAJ: 200 yds. zero	-1.5"	6.2"	9.5"	7.6"	0.0	-14.2"	-35.5"
TRAJ: 250 yds. zero	-1.5"	9.0"	15.1"	16.1"	11.3"	0.0	-18.5"
TRAJ: 300 yds. zero	-1.5"	12.1"	21.3"	25.4"	23.7"	15.4"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1400	1307	1225	1155	1096	1048	1008
ENERGY (ft.-lbs.)	2176	1897	1666	1480	1334	1220	1128
TRAJ: 50 yds. zero	-1.5"	0.0	-3.6"	-13.0"	-28.9"	-51.9"	-72.1"
TRAJ: 100 yds. zero	-1.5"	1.8"	0.0	-7.6"	-21.7"	-43.0"	-56.9"
TRAJ: 150 yds. zero	-1.5"	4.3"	5.1"	0.0	-11.6"	-30.3"	-39.6"
TRAJ: 200 yds. zero	-1.5"	7.2"	10.8"	8.7"	0.0	-15.9"	-20.5"
TRAJ: 250 yds. zero	-1.5"	10.4"	17.2"	18.2"	12.7"	0.0	-0.0"
TRAJ: 300 yds. zero	-1.5"	13.8"	24.0"	28.5"	26.4"	17.1"	0.0
VELOCITY (fps)	1300	1219	1149	1092	1045	1005	971
ENERGY (ft.-lbs.)	1876	1649	1466	1323	1211	1122	1047
TRAJ: 50 yds. zero	-1.5"	0.0	-4.3"	-15.3"	-33.5"	-59.5"	-84.1"
TRAJ: 100 yds. zero	-1.5"	2.2"	0.0	-8.7"	-24.8"	-48.7"	-61.1"
TRAJ: 150 yds. zero	-1.5"	5.1"	5.8"	0.0	-13.1"	-34.1"	-43.6"
TRAJ: 200 yds. zero	-1.5"	8.4"	12.4"	9.8"	0.0	-17.7"	-22.7"
TRAJ: 250 yds. zero	-1.5"	11.9"	19.5"	20.5"	14.2"	0.0	0.0
TRAJ: 300 yds. zero	-1.5"	15.7"	27.0"	31.8"	29.3"	18.9"	0.0
VELOCITY (fps)	1200	1134	1079	1034	996	963	934
ENERGY (ft.-lbs.)	1598	1427	1292	1187	1102	1030	969
TRAJ: 50 yds. zero	-1.5"	0.0	-5.3"	-18.0"	-38.7"	-68.2"	-107.0"
TRAJ: 100 yds. zero	-1.5"	2.6"	0.0	-10.1"	-28.2"	-55.1"	-81.2"
TRAJ: 150 yds. zero	-1.5"	6.0"	6.7"	0.0	-14.8"	-38.3"	-48.8"
TRAJ: 200 yds. zero	-1.5"	9.7"	14.1"	11.1"	0.0	-19.8"	-25.1"
TRAJ: 250 yds. zero	-1.5"	13.6"	22.0"	23.0"	15.8"	0.0	0.0
TRAJ: 300 yds. zero	-1.5"	17.8"	30.4"	35.5"	32.6"	20.9"	0.0
VELOCITY (fps)	1100	1051	1011	976	946	918	893
ENERGY (ft.-lbs.)	1343	1227	1134	1058	993	936	885
TRAJ: 50 yds. zero	-1.5"	0.0	-6.4"	-21.2"	-45.1"	-78.7"	-122.5"
TRAJ: 100 yds. zero	-1.5"	3.2"	0.0	-11.7"	-32.4"	-62.8"	-103.5"
TRAJ: 150 yds. zero	-1.5"	7.1"	7.8"	0.0	-16.9"	-43.4"	-80.1"
TRAJ: 200 yds. zero	-1.5"	11.3"	16.2"	12.6"	0.0	-22.3"	-34.8"
TRAJ: 250 yds. zero	-1.5"	15.7"	25.1"	26.0"	17.8"	0.0	0.0
TRAJ: 300 yds. zero	-1.5"	20.4"	34.5"	40.1"	36.6"	23.4"	0.0
VELOCITY (fps)	1000	967	937	910	886	863	841
ENERGY (ft.-lbs.)	1110	1037	975	920	871	827	786
TRAJ: 50 yds. zero	-1.5"	0.0	-7.8"	-25.5"	-53.6"	-92.8"	-143.6"
TRAJ: 100 yds. zero	-1.5"	3.9"	0.0	-13.8"	-38.0"	-73.3"	-120.2"
TRAJ: 150 yds. zero	-1.5"	8.5"	9.2"	0.0	-19.7"	-50.4"	-92.7"
TRAJ: 200 yds. zero	-1.5"	13.4"	19.0"	14.8"	0.0	-25.8"	-63.2"
TRAJ: 250 yds. zero	-1.5"	18.6"	29.3"	30.2"	20.6"	0.0	0.0
TRAJ: 300 yds. zero	-1.5"	23.9"	40.1"	46.3"	42.1"	26.9"	0.0

45 CALIBER (.458" Dia.) 500 GRAIN FULL METAL JACKET ROUND NOSE
SECTIONAL DENSITY: .341 BALLISTIC COEFFICIENT: .295

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2600	2452	2309	2170	2037	1908	1785
ENERGY (ft.-lbs.)	7504	6674	5917	5229	4605	4041	3536
TRAJ: 50 yds. zero	-1.5"	0.0	0.1"	-1.5"	-4.9"	-10.5"	-18.4"
TRAJ: 100 yds. zero	-1.5"	-0.0"	0.0	-1.6"	-5.1"	-10.6"	-18.5"
TRAJ: 150 yds. zero	-1.5"	0.5"	1.1"	0.0	-2.9"	-7.9"	-15.3"
TRAJ: 200 yds. zero	-1.5"	1.2"	2.5"	2.2"	0.0	-4.3"	-11.0"
TRAJ: 250 yds. zero	-1.5"	2.1"	4.2"	4.8"	3.4"	0.0	-5.8"
TRAJ: 300 yds. zero	-1.5"	3.1"	6.2"	7.7"	7.3"	4.8"	0.0
VELOCITY (fps)	2500	2355	2215	2080	1950	1825	1705
ENERGY (ft.-lbs.)	6938	6158	5448	4803	4219	3695	3227
TRAJ: 50 yds. zero	-1.5"	0.0	-0.1"	-1.9"	-5.8"	-11.9"	-20.7"
TRAJ: 100 yds. zero	-1.5"	0.0	0.0	-1.8"	-5.6"	-11.7"	-20.4"
TRAJ: 150 yds. zero	-1.5"	0.6"	1.2"	0.0	-3.2"	-8.7"	-16.8"
TRAJ: 200 yds. zero	-1.5"	1.4"	2.8"	2.4"	0.0	-4.7"	-12.0"
TRAJ: 250 yds. zero	-1.5"	2.4"	4.7"	5.2"	3.8"	0.0	-6.4"
TRAJ: 300 yds. zero	-1.5"	3.4"	6.8"	8.4"	8.0"	5.3"	0.0
VELOCITY (fps)	2400	2259	2122	1990	1863	1742	1627
ENERGY (ft.-lbs.)	6394	5662	4997	4395	3853	3368	2937
TRAJ: 50 yds. zero	-1.5"	0.0	-0.2"	-2.3"	-6.7"	-13.5"	-23.2"
TRAJ: 100 yds. zero	-1.5"	0.1"	0.0	-2.0"	-6.3"	-13.0"	-22.6"
TRAJ: 150 yds. zero	-1.5"	0.8"	1.4"	0.0	-3.6"	-9.6"	-18.5"
TRAJ: 200 yds. zero	-1.5"	1.7"	3.1"	2.7"	0.0	-5.2"	-13.2"
TRAJ: 250 yds. zero	-1.5"	2.7"	5.2"	5.8"	4.1"	0.0	-7.0"
TRAJ: 300 yds. zero	-1.5"	3.9"	7.5"	9.3"	8.8"	5.8"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2300	2162	2028	1900	1777	1660	1550
ENERGY (ft.-lbs.)	5872	5188	4567	4008	3506	3059	2665
TRAJ: 50 yds. zero	-1.5"	0.0	-0.4"	-2.8"	-7.7"	-15.4"	-26.2"
TRAJ: 100 yds. zero	-1.5"	0.2"	0.0	-2.3"	-7.0"	-14.5"	-25.1"
TRAJ: 150 yds. zero	-1.5"	0.9"	1.5"	0.0	-3.9"	-10.6"	-20.5"
TRAJ: 200 yds. zero	-1.5"	1.9"	3.5"	3.0"	0.0	-5.7"	-14.6"
TRAJ: 250 yds. zero	-1.5"	3.1"	5.8"	6.4"	4.6"	0.0	-7.7"
TRAJ: 300 yds. zero	-1.5"	4.4"	8.4"	10.2"	9.7"	6.4"	0.0
VELOCITY (fps)	2200	2065	1935	1811	1692	1580	1474
ENERGY (ft.-lbs.)	5373	4735	4158	3640	3178	2770	2413
TRAJ: 50 yds. zero	-1.5"	0.0	-0.5"	-3.4"	-8.9"	-17.5"	-29.5"
TRAJ: 100 yds. zero	-1.5"	0.3"	0.0	-2.6"	-7.8"	-16.1"	-27.9"
TRAJ: 150 yds. zero	-1.5"	1.1"	1.7"	0.0	-4.4"	-11.8"	-22.7"
TRAJ: 200 yds. zero	-1.5"	2.2"	3.9"	3.3"	0.0	-6.3"	-16.1"
TRAJ: 250 yds. zero	-1.5"	3.5"	6.4"	7.1"	5.1"	0.0	-8.6"
TRAJ: 300 yds. zero	-1.5"	4.9"	9.3"	11.4"	10.8"	7.1"	0.0
VELOCITY (fps)	2100	1969	1843	1723	1608	1501	1402
ENERGY (ft.-lbs.)	4895	4303	3770	3294	2872	2502	2181
TRAJ: 50 yds. zero	-1.5"	0.0	-0.7"	-4.0"	-10.3"	-19.9"	-33.4"
TRAJ: 100 yds. zero	-1.5"	0.4"	0.0	-2.9"	-8.8"	-18.0"	-31.1"
TRAJ: 150 yds. zero	-1.5"	1.3"	2.0"	0.0	-4.9"	-13.1"	-25.3"
TRAJ: 200 yds. zero	-1.5"	2.6"	4.4"	3.7"	0.0	-7.0"	-17.9"
TRAJ: 250 yds. zero	-1.5"	4.0"	7.2"	7.9"	5.6"	0.0	-9.5"
TRAJ: 300 yds. zero	-1.5"	5.6"	10.4"	12.6"	12.0"	7.9"	0.0
VELOCITY (fps)	2000	1873	1751	1635	1526	1425	1332
ENERGY (ft.-lbs.)	4440	3893	3403	2969	2586	2254	1970
TRAJ: 50 yds. zero	-1.5"	0.0	-1.0"	-4.8"	-11.9"	-22.7"	-37.8"
TRAJ: 100 yds. zero	-1.5"	0.5"	0.0	-3.3"	-9.9"	-20.2"	-34.8"
TRAJ: 150 yds. zero	-1.5"	1.6"	2.2"	0.0	-5.5"	-14.7"	-28.2"
TRAJ: 200 yds. zero	-1.5"	3.0"	5.0"	4.1"	0.0	-7.8"	-20.0"
TRAJ: 250 yds. zero	-1.5"	4.5"	8.1"	8.8"	6.3"	0.0	-10.6"
TRAJ: 300 yds. zero	-1.5"	6.3"	11.6"	14.1"	13.3"	8.8"	0.0
VELOCITY (fps)	1900	1777	1660	1549	1446	1352	1266
ENERGY (ft.-lbs.)	4007	3505	3059	2665	2322	2028	1780
TRAJ: 50 yds. zero	-1.5"	0.0	-1.3"	-5.7"	-13.7"	-25.9"	-42.9"
TRAJ: 100 yds. zero	-1.5"	0.6"	0.0	-3.8"	-11.2"	-22.8"	-39.1"
TRAJ: 150 yds. zero	-1.5"	1.9"	2.5"	0.0	-6.1"	-16.5"	-31.5"
TRAJ: 200 yds. zero	-1.5"	3.4"	5.6"	4.6"	0.0	-8.8"	-22.3"
TRAJ: 250 yds. zero	-1.5"	5.2"	9.1"	9.9"	7.0"	0.0	-11.8"
TRAJ: 300 yds. zero	-1.5"	7.1"	13.0"	15.8"	14.9"	9.8"	0.0
VELOCITY (fps)	1800	1682	1570	1465	1369	1282	1205
ENERGY (ft.-lbs.)	3597	3139	2736	2384	2080	1823	1611
TRAJ: 50 yds. zero	-1.5"	0.0	-1.6"	-6.7"	-15.8"	-29.6"	-48.7"
TRAJ: 100 yds. zero	-1.5"	0.8"	0.0	-4.3"	-12.7"	-25.7"	-44.0"
TRAJ: 150 yds. zero	-1.5"	2.2"	2.9"	0.0	-6.9"	-18.5"	-35.4"
TRAJ: 200 yds. zero	-1.5"	4.0"	6.3"	5.2"	0.0	-9.8"	-25.0"
TRAJ: 250 yds. zero	-1.5"	5.9"	10.3"	11.1"	7.9"	0.0	-13.2"
TRAJ: 300 yds. zero	-1.5"	8.1"	14.7"	17.7"	16.7"	11.0"	0.0
VELOCITY (fps)	1700	1587	1481	1384	1295	1216	1149
ENERGY (ft.-lbs.)	3208	2796	2436	2125	1861	1642	1465
TRAJ: 50 yds. zero	-1.5"	0.0	-2.0"	-7.9"	-18.3"	-34.0"	-55.5"
TRAJ: 100 yds. zero	-1.5"	1.0"	0.0	-4.9"	-14.4"	-29.1"	-49.7"
TRAJ: 150 yds. zero	-1.5"	2.6"	3.3"	0.0	-7.8"	-20.9"	-39.8"
TRAJ: 200 yds. zero	-1.5"	4.6"	7.2"	5.9"	0.0	-11.1"	-28.0"
TRAJ: 250 yds. zero	-1.5"	6.8"	11.6"	12.5"	8.9"	0.0	-14.7"
TRAJ: 300 yds. zero	-1.5"	9.3"	16.6"	19.9"	18.7"	12.3"	0.0
VELOCITY (fps)	1600	1493	1395	1305	1225	1156	1099
ENERGY (ft.-lbs.)	2842	2475	2159	1889	1665	1484	1340
TRAJ: 50 yds. zero	-1.5"	0.0	-2.4"	-9.3"	-21.3"	-39.0"	-63.3"
TRAJ: 100 yds. zero	-1.5"	1.2"	0.0	-5.7"	-16.4"	-33.0"	-56.1"
TRAJ: 150 yds. zero	-1.5"	3.1"	3.8"	0.0	-8.9"	-23.6"	-44.8"
TRAJ: 200 yds. zero	-1.5"	5.3"	8.2"	6.7"	0.0	-12.5"	-31.4"
TRAJ: 250 yds. zero	-1.5"	7.8"	13.2"	14.1"	10.0"	0.0	-16.5"
TRAJ: 300 yds. zero	-1.5"	10.5"	18.7"	22.4"	20.9"	13.7"	0.0

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1500	1401	1310	1230	1160	1102	1054
ENERGY (ft.-lbs.)	2498	2178	1905	1678	1494	1349	1234
TRAJ: 50 yds. zero	-1.5"	0.0	-2.9"	-10.9"	-24.7"	-44.9"	-72.2"
TRAJ: 100 yds. zero	-1.5"	1.5"	0.0	-6.5"	-18.8"	-37.5"	-63.4"
TRAJ: 150 yds. zero	-1.5"	3.6"	4.4"	0.0	-10.1"	-26.7"	-50.3"
TRAJ: 200 yds. zero	-1.5"	6.2"	9.4"	7.6"	0.0	-14.0"	-35.2"
TRAJ: 250 yds. zero	-1.5"	9.0"	15.0"	16.0"	11.2"	0.0	-18.3"
TRAJ: 300 yds. zero	-1.5"	12.0"	21.1"	25.2"	23.4"	15.3"	0.0
VELOCITY (fps)	1400	1310	1229	1160	1102	1054	1014
ENERGY (ft.-lbs.)	2176	1904	1677	1493	1348	1234	1142
TRAJ: 50 yds. zero	-1.5"	0.0	-3.6"	-12.9"	-28.7"	-51.6"	-82.2"
TRAJ: 100 yds. zero	-1.5"	1.8"	0.0	-7.5"	-21.5"	-42.6"	-71.5"
TRAJ: 150 yds. zero	-1.5"	4.3"	5.0"	0.0	-11.5"	-30.1"	-56.4"
TRAJ: 200 yds. zero	-1.5"	7.2"	10.8"	8.6"	0.0	-15.7"	-39.2"
TRAJ: 250 yds. zero	-1.5"	10.3"	17.1"	18.1"	12.6"	0.0	-20.3"
TRAJ: 300 yds. zero	-1.5"	13.7"	23.8"	28.2"	26.1"	16.9"	0.0
VELOCITY (fps)	1300	1221	1153	1096	1049	1010	976
ENERGY (ft.-lbs.)	1876	1654	1475	1334	1222	1133	1058
TRAJ: 50 yds. zero	-1.5"	0.0	-4.3"	-15.2"	-33.3"	-59.2"	-93.5"
TRAJ: 100 yds. zero	-1.5"	2.2"	0.0	-8.7"	-24.6"	-48.3"	-80.5"
TRAJ: 150 yds. zero	-1.5"	5.1"	5.8"	0.0	-13.0"	-33.8"	-63.1"
TRAJ: 200 yds. zero	-1.5"	8.3"	12.3"	9.7"	0.0	-17.6"	-43.6"
TRAJ: 250 yds. zero	-1.5"	11.8"	19.3"	20.3"	14.1"	0.0	-22.5"
TRAJ: 300 yds. zero	-1.5"	15.6"	26.8"	31.6"	29.1"	18.8"	0.0
VELOCITY (fps)	1200	1135	1082	1037	1000	968	939
ENERGY (ft.-lbs.)	1598	1431	1299	1195	1110	1039	978
TRAJ: 50 yds. zero	-1.5"	0.0	-5.2"	-17.9"	-38.6"	-67.9"	-106.4"
TRAJ: 100 yds. zero	-1.5"	2.6"	0.0	-10.0"	-28.1"	-54.8"	-90.7"
TRAJ: 150 yds. zero	-1.5"	6.0"	6.7"	0.0	-14.7"	-38.1"	-70.6"
TRAJ: 200 yds. zero	-1.5"	9.6"	14.0"	11.0"	0.0	-19.7"	-48.5"
TRAJ: 250 yds. zero	-1.5"	13.6"	21.9"	22.8"	15.7"	0.0	-24.9"
TRAJ: 300 yds. zero	-1.5"	17.7"	30.2"	35.3"	32.4"	20.8"	0.0
VELOCITY (fps)	1100	1053	1013	979	949	922	897
ENERGY (ft.-lbs.)	1343	1230	1139	1064	999	943	893
TRAJ: 50 yds. zero	-1.5"	0.0	-6.3"	-21.1"	-44.9"	-78.4"	-122.0"
TRAJ: 100 yds. zero	-1.5"	3.2"	0.0	-11.6"	-32.3"	-62.5"	-103.0"
TRAJ: 150 yds. zero	-1.5"	7.0"	7.7"	0.0	-16.8"	-43.2"	-79.7"
TRAJ: 200 yds. zero	-1.5"	11.2"	16.1"	12.6"	0.0	-22.2"	-54.5"
TRAJ: 250 yds. zero	-1.5"	15.7"	25.0"	25.9"	17.8"	0.0	-27.9"
TRAJ: 300 yds. zero	-1.5"	20.3"	34.3"	39.9"	36.4"	23.3"	0.0
VELOCITY (fps)	1000	968	939	913	888	866	845
ENERGY (ft.-lbs.)	1110	1039	978	924	876	832	792
TRAJ: 50 yds. zero	-1.5"	0.0	-7.8"	-25.4"	-53.4"	-92.5"	-143.1"
TRAJ: 100 yds. zero	-1.5"	3.9"	0.0	-13.7"	-37.9"	-73.0"	-119.7"
TRAJ: 150 yds. zero	-1.5"	8.5"	9.2"	0.0	-19.6"	-50.1"	-92.3"
TRAJ: 200 yds. zero	-1.5"	13.4"	18.9"	14.7"	0.0	-25.7"	-62.9"
TRAJ: 250 yds. zero	-1.5"	18.5"	29.2"	30.1"	20.5"	0.0	-32.1"
TRAJ: 300 yds. zero	-1.5"	23.8"	39.9"	46.1"	41.9"	26.7"	0.0

TRAJECTORY TABLES (LONG RANGE RIFLE)

22 CALIBER (.224" Dia.) 68 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .194 BALLISTIC COEFFICIENT: .330

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3600	2970	2686	2169	1934	1200
ENERGY (ft.-lbs.)	1957	1331	1089	710	565	217
TRAJ: 200 yds. zero	-1.5"	0.0	-4.8"	-30.1"	-53.1"	-268.2"
TRAJ: 300 yds. zero	-1.5"	3.2"	0.0	-22.0"	-43.4"	-252.1"
TRAJ: 500 yds. zero	-1.5"	12.0"	13.2"	0.0	-17.0"	-208.1"
TRAJ: 600 yds. zero	-1.5"	17.7"	21.7"	14.2"	0.0	-179.7"
TRAJ: 1000 yds. zero	-1.5"	53.6"	75.6"	104.0"	107.8"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3500	2883	2606	2098	1867	1164
ENERGY (ft.-lbs.)	1849	1255	1025	664	526	204
TRAJ: 200 yds. zero	-1.5"	0.0	-5.2"	-32.1"	-56.7"	-287.3"
TRAJ: 300 yds. zero	-1.5"	3.4"	0.0	-23.5"	-46.3"	-270.1"
TRAJ: 500 yds. zero	-1.5"	12.8"	14.1"	0.0	-18.1"	-223.1"
TRAJ: 600 yds. zero	-1.5"	18.9"	23.2"	15.1"	0.0	-192.9"
TRAJ: 1000 yds. zero	-1.5"	57.5"	81.0"	111.5"	115.7"	0.0
VELOCITY (fps)	3400	2797	2524	2026	1800	1130
ENERGY (ft.-lbs.)	1745	1181	962	620	489	193
TRAJ: 200 yds. zero	-1.5"	0.0	-5.5"	-34.3"	-60.6"	-308.3"
TRAJ: 300 yds. zero	-1.5"	3.7"	0.0	-25.1"	-49.5"	-289.9"
TRAJ: 500 yds. zero	-1.5"	13.7"	15.1"	0.0	-19.4"	-239.7"
TRAJ: 600 yds. zero	-1.5"	20.2"	24.8"	16.2"	0.0	-207.3"
TRAJ: 1000 yds. zero	-1.5"	61.7"	87.0"	119.8"	124.4"	0.0
VELOCITY (fps)	3300	2710	2442	1954	1733	1100
ENERGY (ft.-lbs.)	1644	1109	901	576	454	183
TRAJ: 200 yds. zero	-1.5"	0.0	-5.9"	-36.8"	-65.0"	-331.4"
TRAJ: 300 yds. zero	-1.5"	4.0"	0.0	-26.9"	-53.1"	-311.6"
TRAJ: 500 yds. zero	-1.5"	14.7"	16.1"	0.0	-20.9"	-257.9"
TRAJ: 600 yds. zero	-1.5"	21.7"	26.6"	17.4"	0.0	-223.1"
TRAJ: 1000 yds. zero	-1.5"	66.3"	93.5"	128.9"	133.9"	0.0
VELOCITY (fps)	3200	2623	2360	1881	1667	1072
ENERGY (ft.-lbs.)	1546	1038	841	534	420	173
TRAJ: 200 yds. zero	-1.5"	0.0	-6.4"	-39.5"	-69.8"	-356.9"
TRAJ: 300 yds. zero	-1.5"	4.3"	0.0	-28.9"	-57.1"	-335.6"
TRAJ: 500 yds. zero	-1.5"	15.8"	17.3"	0.0	-22.4"	-277.9"
TRAJ: 600 yds. zero	-1.5"	23.3"	28.5"	18.7"	0.0	-240.5"
TRAJ: 1000 yds. zero	-1.5"	71.4"	100.7"	138.9"	144.3"	0.0
VELOCITY (fps)	3100	2535	2278	1809	1601	1046
ENERGY (ft.-lbs.)	1451	970	783	494	387	165
TRAJ: 200 yds. zero	-1.5"	0.0	-6.9"	-42.5"	-75.3"	-384.8"
TRAJ: 300 yds. zero	-1.5"	4.6"	0.0	-31.1"	-61.5"	-361.8"
TRAJ: 500 yds. zero	-1.5"	17.0"	18.6"	0.0	-24.2"	-299.7"
TRAJ: 600 yds. zero	-1.5"	25.1"	30.7"	20.2"	0.0	-259.3"
TRAJ: 1000 yds. zero	-1.5"	77.0"	108.5"	149.8"	155.6"	0.0
VELOCITY (fps)	3000	2447	2195	1737	1536	1022
ENERGY (ft.-lbs.)	1359	904	727	456	356	158
TRAJ: 200 yds. zero	-1.5"	0.0	-7.4"	-45.9"	-81.3"	-415.2"
TRAJ: 300 yds. zero	-1.5"	5.0"	0.0	-33.5"	-66.5"	-390.4"
TRAJ: 500 yds. zero	-1.5"	18.4"	20.1"	0.0	-26.2"	-323.3"
TRAJ: 600 yds. zero	-1.5"	27.1"	33.2"	21.9"	0.0	-279.6"
TRAJ: 1000 yds. zero	-1.5"	83.0"	117.1"	161.7"	167.8"	0.0
VELOCITY (fps)	2900	2359	2111	1666	1473	1000
ENERGY (ft.-lbs.)	1270	840	673	419	327	151
TRAJ: 200 yds. zero	-1.5"	0.0	-8.1"	-49.7"	-88.1"	-448.4"
TRAJ: 300 yds. zero	-1.5"	5.4"	0.0	-36.3"	-72.0"	-421.5"
TRAJ: 500 yds. zero	-1.5"	19.9"	21.8"	0.0	-28.5"	-348.9"
TRAJ: 600 yds. zero	-1.5"	29.4"	36.0"	23.7"	0.0	-301.5"
TRAJ: 1000 yds. zero	-1.5"	89.7"	126.5"	174.5"	180.9"	0.0
VELOCITY (fps)	2800	2270	2028	1595	1411	979
ENERGY (ft.-lbs.)	1184	778	621	384	300	145
TRAJ: 200 yds. zero	-1.5"	0.0	-8.8"	-54.0"	-95.8"	-484.4"
TRAJ: 300 yds. zero	-1.5"	5.8"	0.0	-39.4"	-78.3"	-455.3"
TRAJ: 500 yds. zero	-1.5"	21.6"	23.6"	0.0	-31.0"	-376.4"
TRAJ: 600 yds. zero	-1.5"	31.9"	39.1"	25.8"	0.0	-324.8"
TRAJ: 1000 yds. zero	-1.5"	96.9"	136.6"	188.2"	194.9"	0.0
VELOCITY (fps)	2700	2182	1945	1526	1351	959
ENERGY (ft.-lbs.)	1101	718	571	352	276	139
TRAJ: 200 yds. zero	-1.5"	0.0	-9.5"	-58.8"	-104.4"	-523.5"
TRAJ: 300 yds. zero	-1.5"	6.4"	0.0	-42.9"	-85.3"	-491.7"
TRAJ: 500 yds. zero	-1.5"	23.5"	25.8"	0.0	-33.8"	-405.8"
TRAJ: 600 yds. zero	-1.5"	34.8"	42.7"	28.2"	0.0	-349.5"
TRAJ: 1000 yds. zero	-1.5"	104.7"	147.5"	202.9"	209.7"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2600	2093	1863	1459	1294	940
ENERGY (ft.-lbs.)	1021	661	524	321	253	133
TRAJ: 200 yds. zero	-1.5"	0.0	-10.4"	-64.2"	-114.1"	-565.6"
TRAJ: 300 yds. zero	-1.5"	6.9"	0.0	-46.9"	-93.3"	-530.9"
TRAJ: 500 yds. zero	-1.5"	25.7"	28.1"	0.0	-37.0"	-437.1"
TRAJ: 600 yds. zero	-1.5"	38.0"	46.6"	30.8"	0.0	-375.5"
TRAJ: 1000 yds. zero	-1.5"	113.1"	159.3"	218.6"	225.3"	0.0
VELOCITY (fps)	2500	2004	1780	1393	1240	922
ENERGY (ft.-lbs.)	944	606	479	293	232	128
TRAJ: 200 yds. zero	-1.5"	0.0	-11.4"	-70.4"	-125.0"	-611.2"
TRAJ: 300 yds. zero	-1.5"	7.6"	0.0	-51.4"	-102.2"	-573.1"
TRAJ: 500 yds. zero	-1.5"	28.2"	30.8"	0.0	-40.5"	-470.4"
TRAJ: 600 yds. zero	-1.5"	41.7"	51.1"	33.8"	0.0	-402.8"
TRAJ: 1000 yds. zero	-1.5"	122.2"	171.9"	235.2"	241.7"	0.0
VELOCITY (fps)	2400	1916	1699	1331	1190	905
ENERGY (ft.-lbs.)	870	554	436	267	214	124
TRAJ: 200 yds. zero	-1.5"	0.0	-12.5"	-77.4"	-137.3"	-660.1"
TRAJ: 300 yds. zero	-1.5"	8.4"	0.0	-56.5"	-112.2"	-618.3"
TRAJ: 500 yds. zero	-1.5"	30.9"	33.9"	0.0	-44.5"	-505.4"
TRAJ: 600 yds. zero	-1.5"	45.8"	56.1"	37.1"	0.0	-431.3"
TRAJ: 1000 yds. zero	-1.5"	132.0"	185.5"	252.7"	258.8"	0.0

6MM CALIBER (.243" Dia.) 87 GRAIN BOAT TAIL HOLLOW POINT
SECTIONAL DENSITY: .210 BALLISTIC COEFFICIENT: .376

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3600	3042	2788	2321	2105	1379
ENERGY (ft.-lbs.)	2503	1787	1501	1040	856	367
TRAJ: 200 yds. zero	-1.5"	0.0	-4.6"	-28.1"	-49.0"	-231.7"
TRAJ: 300 yds. zero	-1.5"	3.1"	0.0	-20.4"	-39.8"	-216.4"
TRAJ: 500 yds. zero	-1.5"	11.2"	12.3"	0.0	-15.3"	-175.5"
TRAJ: 600 yds. zero	-1.5"	16.3"	19.9"	12.7"	0.0	-150.0"
TRAJ: 1000 yds. zero	-1.5"	46.3"	64.9"	87.7"	90.0"	0.0
VELOCITY (fps)	3500	2954	2705	2247	2035	1331
ENERGY (ft.-lbs.)	2366	1686	1414	975	800	342
TRAJ: 200 yds. zero	-1.5"	0.0	-4.9"	-30.0"	-52.3"	-247.9"
TRAJ: 300 yds. zero	-1.5"	3.3"	0.0	-21.8"	-42.4"	-231.5"
TRAJ: 500 yds. zero	-1.5"	12.0"	13.1"	0.0	-16.3"	-187.9"
TRAJ: 600 yds. zero	-1.5"	17.4"	21.2"	13.6"	0.0	-160.8"
TRAJ: 1000 yds. zero	-1.5"	49.6"	69.4"	94.0"	96.5"	0.0
VELOCITY (fps)	3400	2866	2622	2172	1964	1285
ENERGY (ft.-lbs.)	2233	1587	1328	911	745	319
TRAJ: 200 yds. zero	-1.5"	0.0	-5.3"	-32.0"	-55.8"	-265.8"
TRAJ: 300 yds. zero	-1.5"	3.5"	0.0	-23.2"	-45.3"	-248.2"
TRAJ: 500 yds. zero	-1.5"	12.8"	13.9"	0.0	-17.4"	-201.7"
TRAJ: 600 yds. zero	-1.5"	18.6"	22.6"	14.5"	0.0	-172.7"
TRAJ: 1000 yds. zero	-1.5"	53.2"	74.5"	100.9"	103.6"	0.0
VELOCITY (fps)	3300	2778	2539	2097	1893	1240
ENERGY (ft.-lbs.)	2103	1491	1245	849	692	297
TRAJ: 200 yds. zero	-1.5"	0.0	-5.7"	-34.3"	-59.8"	-285.6"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-24.9"	-48.5"	-266.8"
TRAJ: 500 yds. zero	-1.5"	13.7"	14.9"	0.0	-18.6"	-217.0"
TRAJ: 600 yds. zero	-1.5"	19.9"	24.2"	15.5"	0.0	-185.9"
TRAJ: 1000 yds. zero	-1.5"	57.1"	80.0"	108.5"	111.6"	0.0
VELOCITY (fps)	3200	2689	2455	2021	1822	1198
ENERGY (ft.-lbs.)	1978	1397	1164	789	642	277
TRAJ: 200 yds. zero	-1.5"	0.0	-6.1"	-36.8"	-64.2"	-307.7"
TRAJ: 300 yds. zero	-1.5"	4.1"	0.0	-26.7"	-52.0"	-287.4"
TRAJ: 500 yds. zero	-1.5"	14.7"	16.0"	0.0	-20.0"	-234.1"
TRAJ: 600 yds. zero	-1.5"	21.4"	26.0"	16.7"	0.0	-200.7"
TRAJ: 1000 yds. zero	-1.5"	61.5"	86.2"	117.0"	120.4"	0.0
VELOCITY (fps)	3100	2600	2370	1945	1752	1159
ENERGY (ft.-lbs.)	1856	1306	1085	731	593	260
TRAJ: 200 yds. zero	-1.5"	0.0	-6.6"	-39.6"	-69.1"	-332.1"
TRAJ: 300 yds. zero	-1.5"	4.4"	0.0	-28.7"	-56.0"	-310.3"
TRAJ: 500 yds. zero	-1.5"	15.8"	17.2"	0.0	-21.6"	-252.9"
TRAJ: 600 yds. zero	-1.5"	23.0"	28.0"	18.0"	0.0	-217.0"
TRAJ: 1000 yds. zero	-1.5"	66.4"	93.1"	126.5"	130.2"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3000	2511	2286	1870	1682	1123
ENERGY (ft.-lbs.)	1738	1218	1009	675	546	244
TRAJ: 200 yds. zero	-1.5"	0.0	-7.1"	-42.7"	-74.6"	-359.3"
TRAJ: 300 yds. zero	-1.5"	4.7"	0.0	-30.9"	-60.4"	-335.7"
TRAJ: 500 yds. zero	-1.5"	17.1"	18.5"	0.0	-23.3"	-273.9"
TRAJ: 600 yds. zero	-1.5"	24.9"	30.2"	19.4"	0.0	-235.0"
TRAJ: 1000 yds. zero	-1.5"	71.9"	100.7"	137.0"	141.0"	0.0
VELOCITY (fps)	2900	2421	2200	1795	1612	1090
ENERGY (ft.-lbs.)	1624	1132	935	622	502	230
TRAJ: 200 yds. zero	-1.5"	0.0	-7.7"	-46.2"	-80.7"	-389.4"
TRAJ: 300 yds. zero	-1.5"	5.1"	0.0	-33.4"	-65.4"	-363.8"
TRAJ: 500 yds. zero	-1.5"	18.5"	20.1"	0.0	-25.3"	-297.0"
TRAJ: 600 yds. zero	-1.5"	26.9"	32.7"	21.1"	0.0	-254.9"
TRAJ: 1000 yds. zero	-1.5"	77.9"	109.2"	148.5"	152.9"	0.0
VELOCITY (fps)	2800	2332	2115	1720	1544	1061
ENERGY (ft.-lbs.)	1514	1050	864	571	460	217
TRAJ: 200 yds. zero	-1.5"	0.0	-8.3"	-50.1"	-87.6"	-422.6"
TRAJ: 300 yds. zero	-1.5"	5.5"	0.0	-36.2"	-71.0"	-394.8"
TRAJ: 500 yds. zero	-1.5"	20.0"	21.7"	0.0	-27.5"	-322.4"
TRAJ: 600 yds. zero	-1.5"	29.2"	35.5"	22.9"	0.0	-276.6"
TRAJ: 1000 yds. zero	-1.5"	84.5"	118.5"	161.2"	165.9"	0.0
VELOCITY (fps)	2700	2242	2030	1646	1477	1034
ENERGY (ft.-lbs.)	1408	971	796	523	421	206
TRAJ: 200 yds. zero	-1.5"	0.0	-9.1"	-54.5"	-95.4"	-459.1"
TRAJ: 300 yds. zero	-1.5"	6.0"	0.0	-39.4"	-77.3"	-428.9"
TRAJ: 500 yds. zero	-1.5"	21.8"	23.7"	0.0	-29.9"	-350.0"
TRAJ: 600 yds. zero	-1.5"	31.8"	38.6"	25.0"	0.0	-300.1"
TRAJ: 1000 yds. zero	-1.5"	91.8"	128.7"	175.0"	180.1"	0.0
VELOCITY (fps)	2600	2152	1945	1573	1412	1009
ENERGY (ft.-lbs.)	1306	894	731	478	385	197
TRAJ: 200 yds. zero	-1.5"	0.0	-9.9"	-59.5"	-104.1"	-498.9"
TRAJ: 300 yds. zero	-1.5"	6.6"	0.0	-43.0"	-84.4"	-466.0"
TRAJ: 500 yds. zero	-1.5"	23.8"	25.8"	0.0	-32.7"	-380.0"
TRAJ: 600 yds. zero	-1.5"	34.7"	42.2"	27.3"	0.0	-325.4"
TRAJ: 1000 yds. zero	-1.5"	99.8"	139.8"	190.0"	195.2"	0.0
VELOCITY (fps)	2500	2062	1861	1502	1349	986
ENERGY (ft.-lbs.)	1207	821	669	436	352	188
TRAJ: 200 yds. zero	-1.5"	0.0	-10.8"	-65.1"	-114.0"	-542.5"
TRAJ: 300 yds. zero	-1.5"	7.2"	0.0	-47.1"	-92.4"	-506.4"
TRAJ: 500 yds. zero	-1.5"	26.0"	28.2"	0.0	-35.9"	-412.2"
TRAJ: 600 yds. zero	-1.5"	38.0"	46.2"	29.9"	0.0	-352.4"
TRAJ: 1000 yds. zero	-1.5"	108.5"	151.9"	206.1"	211.5"	0.0
VELOCITY (fps)	2400	1972	1777	1432	1290	964
ENERGY (ft.-lbs.)	1113	751	610	396	321	180
TRAJ: 200 yds. zero	-1.5"	0.0	-11.9"	-71.5"	-125.2"	-589.7"
TRAJ: 300 yds. zero	-1.5"	7.9"	0.0	-51.7"	-101.5"	-550.1"
TRAJ: 500 yds. zero	-1.5"	28.6"	31.0"	0.0	-39.4"	-446.7"
TRAJ: 600 yds. zero	-1.5"	41.7"	50.7"	32.9"	0.0	-381.0"
TRAJ: 1000 yds. zero	-1.5"	117.9"	165.0"	223.3"	228.6"	0.0
VELOCITY (fps)	2300	1883	1694	1366	1234	944
ENERGY (ft.-lbs.)	1022	685	554	360	294	172
TRAJ: 200 yds. zero	-1.5"	0.0	-13.1"	-78.8"	-137.9"	-640.8"
TRAJ: 300 yds. zero	-1.5"	8.7"	0.0	-56.9"	-111.7"	-597.2"
TRAJ: 500 yds. zero	-1.5"	31.5"	34.2"	0.0	-43.4"	-483.3"
TRAJ: 600 yds. zero	-1.5"	46.0"	55.9"	36.2"	0.0	-410.9"
TRAJ: 1000 yds. zero	-1.5"	128.2"	179.1"	241.6"	246.6"	0.0
VELOCITY (fps)	2200	1794	1612	1302	1182	924
ENERGY (ft.-lbs.)	935	622	502	327	270	165
TRAJ: 200 yds. zero	-1.5"	0.0	-14.5"	-87.0"	-152.3"	-696.1"
TRAJ: 300 yds. zero	-1.5"	9.7"	0.0	-62.9"	-123.3"	-647.8"
TRAJ: 500 yds. zero	-1.5"	34.8"	37.7"	0.0	-47.8"	-522.0"
TRAJ: 600 yds. zero	-1.5"	50.8"	61.7"	39.9"	0.0	-442.2"
TRAJ: 1000 yds. zero	-1.5"	139.2"	194.3"	261.0"	265.3"	0.0

Hornady
HANDBOOK

6MM CALIBER (.243" Dia.) 100 GRAIN SPIRE POINT
SECTIONAL DENSITY: .242 BALLISTIC COEFFICIENT: .381

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3400	2873	2632	2186	1980	1302
ENERGY (ft.-lbs.)	2566	1832	1538	1061	870	376
TRAJ: 200 yds. zero	-1.5"	0.0	-5.2"	-31.8"	-55.4"	-262.2"
TRAJ: 300 yds. zero	-1.5"	3.5"	0.0	-23.1"	-44.9"	-244.7"
TRAJ: 500 yds. zero	-1.5"	12.7"	13.8"	0.0	-17.2"	-198.5"
TRAJ: 600 yds. zero	-1.5"	18.5"	22.5"	14.4"	0.0	-169.8"
TRAJ: 1000 yds. zero	-1.5"	52.4"	73.4"	99.3"	101.9"	0.0
VELOCITY (fps)	3300	2784	2548	2110	1909	1256
ENERGY (ft.-lbs.)	2418	1721	1441	989	809	350
TRAJ: 200 yds. zero	-1.5"	0.0	-5.6"	-34.1"	-59.3"	-281.7"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-24.7"	-48.1"	-262.9"
TRAJ: 500 yds. zero	-1.5"	13.6"	14.8"	0.0	-18.5"	-213.6"
TRAJ: 600 yds. zero	-1.5"	19.8"	24.0"	15.4"	0.0	-182.8"
TRAJ: 1000 yds. zero	-1.5"	56.3"	78.9"	106.8"	109.7"	0.0
VELOCITY (fps)	3200	2696	2464	2035	1838	1213
ENERGY (ft.-lbs.)	2273	1613	1348	919	750	327
TRAJ: 200 yds. zero	-1.5"	0.0	-6.1"	-36.6"	-63.7"	-303.4"
TRAJ: 300 yds. zero	-1.5"	4.0"	0.0	-26.5"	-51.6"	-283.2"
TRAJ: 500 yds. zero	-1.5"	14.6"	15.9"	0.0	-19.8"	-230.3"
TRAJ: 600 yds. zero	-1.5"	21.2"	25.8"	16.5"	0.0	-197.3"
TRAJ: 1000 yds. zero	-1.5"	60.7"	85.0"	115.1"	118.4"	0.0
VELOCITY (fps)	3100	2607	2379	1959	1767	1172
ENERGY (ft.-lbs.)	2133	1508	1257	852	693	305
TRAJ: 200 yds. zero	-1.5"	0.0	-6.5"	-39.3"	-68.6"	-327.6"
TRAJ: 300 yds. zero	-1.5"	4.4"	0.0	-28.5"	-55.5"	-305.8"
TRAJ: 500 yds. zero	-1.5"	15.7"	17.1"	0.0	-21.4"	-248.9"
TRAJ: 600 yds. zero	-1.5"	22.9"	27.8"	17.8"	0.0	-213.3"
TRAJ: 1000 yds. zero	-1.5"	65.5"	91.7"	124.4"	128.0"	0.0
VELOCITY (fps)	3000	2517	2294	1883	1696	1135
ENERGY (ft.-lbs.)	1998	1407	1168	787	639	286
TRAJ: 200 yds. zero	-1.5"	0.0	-7.0"	-42.4"	-74.0"	-354.4"
TRAJ: 300 yds. zero	-1.5"	4.7"	0.0	-30.7"	-59.9"	-330.9"
TRAJ: 500 yds. zero	-1.5"	17.0"	18.4"	0.0	-23.1"	-269.5"
TRAJ: 600 yds. zero	-1.5"	24.7"	29.9"	19.2"	0.0	-231.1"
TRAJ: 1000 yds. zero	-1.5"	70.9"	99.3"	134.8"	138.6"	0.0
VELOCITY (fps)	2900	2427	2209	1807	1626	1101
ENERGY (ft.-lbs.)	1867	1308	1083	725	587	269
TRAJ: 200 yds. zero	-1.5"	0.0	-7.6"	-45.9"	-80.1"	-384.1"
TRAJ: 300 yds. zero	-1.5"	5.1"	0.0	-33.2"	-64.8"	-358.7"
TRAJ: 500 yds. zero	-1.5"	18.4"	19.9"	0.0	-25.0"	-292.3"
TRAJ: 600 yds. zero	-1.5"	26.7"	32.4"	20.8"	0.0	-250.7"
TRAJ: 1000 yds. zero	-1.5"	76.8"	107.6"	146.2"	150.4"	0.0
VELOCITY (fps)	2800	2337	2124	1732	1557	1070
ENERGY (ft.-lbs.)	1741	1213	1001	666	538	254
TRAJ: 200 yds. zero	-1.5"	0.0	-8.3"	-49.8"	-86.9"	-416.9"
TRAJ: 300 yds. zero	-1.5"	5.5"	0.0	-36.0"	-70.3"	-389.3"
TRAJ: 500 yds. zero	-1.5"	19.9"	21.6"	0.0	-27.2"	-317.4"
TRAJ: 600 yds. zero	-1.5"	29.0"	35.2"	22.6"	0.0	-272.1"
TRAJ: 1000 yds. zero	-1.5"	83.4"	116.8"	158.7"	163.3"	0.0
VELOCITY (fps)	2700	2247	2038	1657	1490	1042
ENERGY (ft.-lbs.)	1618	1121	922	610	493	241
TRAJ: 200 yds. zero	-1.5"	0.0	-9.0"	-54.1"	-94.6"	-453.1"
TRAJ: 300 yds. zero	-1.5"	6.0"	0.0	-39.1"	-76.5"	-423.1"
TRAJ: 500 yds. zero	-1.5"	21.7"	23.5"	0.0	-29.6"	-344.8"
TRAJ: 600 yds. zero	-1.5"	31.5"	38.3"	24.7"	0.0	-295.5"
TRAJ: 1000 yds. zero	-1.5"	90.6"	126.9"	172.4"	177.3"	0.0
VELOCITY (fps)	2600	2157	1953	1584	1424	1016
ENERGY (ft.-lbs.)	1501	1033	847	557	450	229
TRAJ: 200 yds. zero	-1.5"	0.0	-9.8"	-59.1"	-103.2"	-492.7"
TRAJ: 300 yds. zero	-1.5"	6.6"	0.0	-42.7"	-83.6"	-459.9"
TRAJ: 500 yds. zero	-1.5"	23.6"	25.6"	0.0	-32.4"	-374.6"
TRAJ: 600 yds. zero	-1.5"	34.4"	41.8"	27.0"	0.0	-320.7"
TRAJ: 1000 yds. zero	-1.5"	98.5"	138.0"	187.3"	192.4"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2500	2067	1868	1512	1361	993
ENERGY (ft.-lbs.)	1388	949	775	508	411	219
TRAJ: 200 yds. zero	-1.5"	0.0	-10.8"	-64.6"	-113.1"	-536.0"
TRAJ: 300 yds. zero	-1.5"	7.2"	0.0	-46.7"	-91.5"	-500.1"
TRAJ: 500 yds. zero	-1.5"	25.9"	28.0"	0.0	-35.5"	-406.7"
TRAJ: 600 yds. zero	-1.5"	37.7"	45.8"	29.6"	0.0	-347.6"
TRAJ: 1000 yds. zero	-1.5"	107.2"	150.0"	203.4"	208.5"	0.0
VELOCITY (fps)	2400	1977	1784	1443	1300	970
ENERGY (ft.-lbs.)	1279	868	707	462	375	209
TRAJ: 200 yds. zero	-1.5"	0.0	-11.8"	-71.0"	-124.2"	-583.0"
TRAJ: 300 yds. zero	-1.5"	7.9"	0.0	-51.3"	-100.5"	-543.5"
TRAJ: 500 yds. zero	-1.5"	28.4"	30.8"	0.0	-39.0"	-441.0"
TRAJ: 600 yds. zero	-1.5"	41.4"	50.3"	32.5"	0.0	-376.0"
TRAJ: 1000 yds. zero	-1.5"	116.6"	163.1"	220.5"	225.6"	0.0
VELOCITY (fps)	2300	1888	1701	1375	1243	950
ENERGY (ft.-lbs.)	1174	791	642	420	343	200
TRAJ: 200 yds. zero	-1.5"	0.0	-13.0"	-78.2"	-136.8"	-634.0"
TRAJ: 300 yds. zero	-1.5"	8.7"	0.0	-56.5"	-110.7"	-590.5"
TRAJ: 500 yds. zero	-1.5"	31.3"	33.9"	0.0	-42.9"	-477.6"
TRAJ: 600 yds. zero	-1.5"	45.6"	55.3"	35.8"	0.0	-406.0"
TRAJ: 1000 yds. zero	-1.5"	126.8"	177.2"	238.8"	243.6"	0.0
VELOCITY (fps)	2200	1799	1619	1311	1191	930
ENERGY (ft.-lbs.)	1075	719	582	381	315	192
TRAJ: 200 yds. zero	-1.5"	0.0	-14.4"	-86.4"	-151.0"	-689.0"
TRAJ: 300 yds. zero	-1.5"	9.6"	0.0	-62.4"	-122.2"	-641.0"
TRAJ: 500 yds. zero	-1.5"	34.6"	37.4"	0.0	-47.3"	-516.2"
TRAJ: 600 yds. zero	-1.5"	50.3"	61.1"	39.4"	0.0	-437.4"
TRAJ: 1000 yds. zero	-1.5"	137.8"	192.3"	258.1"	262.4"	0.0
VELOCITY (fps)	2100	1711	1538	1250	1143	911
ENERGY (ft.-lbs.)	979	650	525	347	290	184
TRAJ: 200 yds. zero	-1.5"	0.0	-16.0"	-95.8"	-167.1"	-748.5"
TRAJ: 300 yds. zero	-1.5"	10.7"	0.0	-69.1"	-135.1"	-695.1"
TRAJ: 500 yds. zero	-1.5"	38.3"	41.5"	0.0	-52.2"	-556.9"
TRAJ: 600 yds. zero	-1.5"	55.7"	67.6"	43.5"	0.0	-469.9"
TRAJ: 1000 yds. zero	-1.5"	149.7"	208.5"	278.5"	282.0"	0.0
VELOCITY (fps)	2000	1624	1460	1194	1100	892
ENERGY (ft.-lbs.)	888	586	473	317	269	177
TRAJ: 200 yds. zero	-1.5"	0.0	-17.8"	-106.4"	-185.2"	-812.5"
TRAJ: 300 yds. zero	-1.5"	11.9"	0.0	-76.7"	-149.6"	-753.1"
TRAJ: 500 yds. zero	-1.5"	42.6"	46.0"	0.0	-57.5"	-599.7"
TRAJ: 600 yds. zero	-1.5"	61.7"	74.8"	47.9"	0.0	-503.8"
TRAJ: 1000 yds. zero	-1.5"	162.5"	225.9"	299.8"	302.3"	0.0

6MM CALIBER (.243" Dia.) 100 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .242 BALLISTIC COEFFICIENT: .405

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3400	2902	2674	2249	2052	1384
ENERGY (ft.-lbs.)	2566	1870	1587	1123	935	425
TRAJ: 200 yds. zero	-1.5"	0.0	-5.1"	-30.9"	-53.6"	-246.9"
TRAJ: 300 yds. zero	-1.5"	3.4"	0.0	-22.4"	-43.3"	-229.7"
TRAJ: 500 yds. zero	-1.5"	12.4"	13.4"	0.0	-16.5"	-185.0"
TRAJ: 600 yds. zero	-1.5"	17.9"	21.7"	13.7"	0.0	-157.6"
TRAJ: 1000 yds. zero	-1.5"	49.4"	68.9"	92.5"	94.5"	0.0
VELOCITY (fps)	3300	2813	2589	2172	1979	1333
ENERGY (ft.-lbs.)	2418	1757	1488	1048	870	395
TRAJ: 200 yds. zero	-1.5"	0.0	-5.5"	-33.1"	-57.4"	-265.1"
TRAJ: 300 yds. zero	-1.5"	3.7"	0.0	-23.9"	-46.3"	-246.7"
TRAJ: 500 yds. zero	-1.5"	13.2"	14.3"	0.0	-17.6"	-198.9"
TRAJ: 600 yds. zero	-1.5"	19.1"	23.2"	14.7"	0.0	-169.5"
TRAJ: 1000 yds. zero	-1.5"	53.0"	74.0"	99.4"	101.7"	0.0
VELOCITY (fps)	3200	2724	2504	2095	1906	1284
ENERGY (ft.-lbs.)	2273	1647	1392	975	807	366
TRAJ: 200 yds. zero	-1.5"	0.0	-5.9"	-35.5"	-61.6"	-285.4"
TRAJ: 300 yds. zero	-1.5"	4.0"	0.0	-25.6"	-49.7"	-265.6"
TRAJ: 500 yds. zero	-1.5"	14.2"	15.4"	0.0	-18.9"	-214.4"
TRAJ: 600 yds. zero	-1.5"	20.5"	24.8"	15.8"	0.0	-182.8"
TRAJ: 1000 yds. zero	-1.5"	57.1"	79.7"	107.2"	109.7"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3100	2634	2419	2018	1833	1238
ENERGY (ft.-lbs.)	2133	1541	1299	904	746	340
TRAJ: 200 yds. zero	-1.5"	0.0	-6.4"	-38.2"	-66.2"	-308.0"
TRAJ: 300 yds. zero	-1.5"	4.3"	0.0	-27.5"	-53.4"	-286.7"
TRAJ: 500 yds. zero	-1.5"	15.3"	16.5"	0.0	-20.4"	-231.6"
TRAJ: 600 yds. zero	-1.5"	22.1"	26.7"	17.0"	0.0	-197.6"
TRAJ: 1000 yds. zero	-1.5"	61.6"	86.0"	115.8"	118.6"	0.0
VELOCITY (fps)	3000	2544	2333	1941	1761	1194
ENERGY (ft.-lbs.)	1998	1437	1208	836	688	317
TRAJ: 200 yds. zero	-1.5"	0.0	-6.9"	-41.2"	-71.4"	-333.2"
TRAJ: 300 yds. zero	-1.5"	4.6"	0.0	-29.7"	-57.6"	-310.2"
TRAJ: 500 yds. zero	-1.5"	16.5"	17.8"	0.0	-22.0"	-250.8"
TRAJ: 600 yds. zero	-1.5"	23.8"	28.8"	18.3"	0.0	-214.1"
TRAJ: 1000 yds. zero	-1.5"	66.6"	93.0"	125.4"	128.5"	0.0
VELOCITY (fps)	2900	2454	2247	1863	1689	1154
ENERGY (ft.-lbs.)	1867	1337	1121	771	633	295
TRAJ: 200 yds. zero	-1.5"	0.0	-7.5"	-44.5"	-77.2"	-361.2"
TRAJ: 300 yds. zero	-1.5"	5.0"	0.0	-32.1"	-62.3"	-336.3"
TRAJ: 500 yds. zero	-1.5"	17.8"	19.2"	0.0	-23.8"	-272.2"
TRAJ: 600 yds. zero	-1.5"	25.7"	31.1"	19.8"	0.0	-232.5"
TRAJ: 1000 yds. zero	-1.5"	72.2"	100.9"	136.1"	139.5"	0.0
VELOCITY (fps)	2800	2364	2161	1787	1617	1117
ENERGY (ft.-lbs.)	1741	1240	1037	709	581	277
TRAJ: 200 yds. zero	-1.5"	0.0	-8.1"	-48.3"	-83.8"	-392.4"
TRAJ: 300 yds. zero	-1.5"	5.4"	0.0	-34.7"	-67.6"	-365.4"
TRAJ: 500 yds. zero	-1.5"	19.3"	20.8"	0.0	-25.9"	-295.9"
TRAJ: 600 yds. zero	-1.5"	27.9"	33.8"	21.6"	0.0	-252.8"
TRAJ: 1000 yds. zero	-1.5"	78.5"	109.6"	148.0"	151.7"	0.0
VELOCITY (fps)	2700	2273	2075	1710	1547	1083
ENERGY (ft.-lbs.)	1618	1147	955	649	532	260
TRAJ: 200 yds. zero	-1.5"	0.0	-8.8"	-52.5"	-91.1"	-427.1"
TRAJ: 300 yds. zero	-1.5"	5.9"	0.0	-37.8"	-73.5"	-397.6"
TRAJ: 500 yds. zero	-1.5"	21.0"	22.7"	0.0	-28.2"	-322.1"
TRAJ: 600 yds. zero	-1.5"	30.4"	36.7"	23.5"	0.0	-275.2"
TRAJ: 1000 yds. zero	-1.5"	85.4"	119.3"	161.1"	165.1"	0.0
VELOCITY (fps)	2600	2182	1988	1635	1479	1053
ENERGY (ft.-lbs.)	1501	1057	878	593	485	246
TRAJ: 200 yds. zero	-1.5"	0.0	-9.6"	-57.2"	-99.5"	-465.3"
TRAJ: 300 yds. zero	-1.5"	6.4"	0.0	-41.2"	-80.2"	-433.2"
TRAJ: 500 yds. zero	-1.5"	22.9"	24.7"	0.0	-30.8"	-350.8"
TRAJ: 600 yds. zero	-1.5"	33.2"	40.1"	25.6"	0.0	-299.5"
TRAJ: 1000 yds. zero	-1.5"	93.1"	130.0"	175.4"	179.7"	0.0
VELOCITY (fps)	2500	2092	1903	1561	1412	1026
ENERGY (ft.-lbs.)	1388	971	804	541	443	234
TRAJ: 200 yds. zero	-1.5"	0.0	-10.5"	-62.6"	-108.9"	-507.3"
TRAJ: 300 yds. zero	-1.5"	7.0"	0.0	-45.0"	-87.8"	-472.2"
TRAJ: 500 yds. zero	-1.5"	25.0"	27.0"	0.0	-33.7"	-382.1"
TRAJ: 600 yds. zero	-1.5"	36.3"	43.9"	28.1"	0.0	-325.9"
TRAJ: 1000 yds. zero	-1.5"	101.5"	141.7"	191.1"	195.5"	0.0
VELOCITY (fps)	2400	2001	1817	1489	1348	1000
ENERGY (ft.-lbs.)	1279	889	733	492	404	222
TRAJ: 200 yds. zero	-1.5"	0.0	-11.6"	-68.7"	-119.5"	-553.3"
TRAJ: 300 yds. zero	-1.5"	7.7"	0.0	-49.4"	-96.4"	-514.7"
TRAJ: 500 yds. zero	-1.5"	27.5"	29.7"	0.0	-37.0"	-415.8"
TRAJ: 600 yds. zero	-1.5"	39.8"	48.2"	30.9"	0.0	-354.1"
TRAJ: 1000 yds. zero	-1.5"	110.7"	154.4"	207.9"	212.5"	0.0
VELOCITY (fps)	2300	1911	1733	1419	1287	977
ENERGY (ft.-lbs.)	1174	811	667	447	368	212
TRAJ: 200 yds. zero	-1.5"	0.0	-12.7"	-75.7"	-131.6"	-603.4"
TRAJ: 300 yds. zero	-1.5"	8.5"	0.0	-54.4"	-106.1"	-561.0"
TRAJ: 500 yds. zero	-1.5"	30.3"	32.7"	0.0	-40.8"	-452.1"
TRAJ: 600 yds. zero	-1.5"	43.9"	53.1"	34.0"	0.0	-384.1"
TRAJ: 1000 yds. zero	-1.5"	120.7"	168.3"	226.0"	230.4"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2200	1821	1650	1351	1230	955
ENERGY (ft.-lbs.)	1075	737	604	405	336	203
TRAJ: 200 yds. zero	-1.5"	0.0	-14.1"	-83.6"	-145.4"	-657.9"
TRAJ: 300 yds. zero	-1.5"	9.4"	0.0	-60.1"	-117.2"	-610.9"
TRAJ: 500 yds. zero	-1.5"	33.4"	36.1"	0.0	-45.0"	-490.7"
TRAJ: 600 yds. zero	-1.5"	48.5"	58.6"	37.5"	0.0	-415.6"
TRAJ: 1000 yds. zero	-1.5"	131.6"	183.3"	245.3"	249.4"	0.0
VELOCITY (fps)	2100	1733	1568	1287	1178	935
ENERGY (ft.-lbs.)	979	667	546	368	308	194
TRAJ: 200 yds. zero	-1.5"	0.0	-15.6"	-92.7"	-160.9"	-716.7"
TRAJ: 300 yds. zero	-1.5"	10.4"	0.0	-66.6"	-129.7"	-664.6"
TRAJ: 500 yds. zero	-1.5"	37.1"	40.0"	0.0	-49.7"	-531.4"
TRAJ: 600 yds. zero	-1.5"	53.6"	64.8"	41.4"	0.0	-448.5"
TRAJ: 1000 yds. zero	-1.5"	143.3"	199.4"	265.7"	269.1"	0.0
VELOCITY (fps)	2000	1645	1488	1227	1131	915
ENERGY (ft.-lbs.)	888	601	491	334	284	186
TRAJ: 200 yds. zero	-1.5"	0.0	-17.4"	-103.0"	-178.6"	-780.4"
TRAJ: 300 yds. zero	-1.5"	11.6"	0.0	-74.0"	-143.7"	-722.3"
TRAJ: 500 yds. zero	-1.5"	41.2"	44.4"	0.0	-55.0"	-574.4"
TRAJ: 600 yds. zero	-1.5"	59.5"	71.9"	45.8"	0.0	-482.8"
TRAJ: 1000 yds. zero	-1.5"	156.1"	216.7"	287.2"	289.7"	0.0

25 CALIBER (.257" Dia.) 100 GRAIN SPIRE POINT
SECTIONAL DENSITY: .216 BALLISTIC COEFFICIENT: .357

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3600	3014	2749	2262	2039	1305
ENERGY (ft.-lbs.)	2877	2017	1678	1136	923	378
TRAJ: 200 yds. zero	-1.5"	0.0	-4.7"	-28.8"	-50.5"	-244.8"
TRAJ: 300 yds. zero	-1.5"	3.1"	0.0	-21.0"	-41.1"	-229.2"
TRAJ: 500 yds. zero	-1.5"	11.5"	12.6"	0.0	-15.9"	-187.1"
TRAJ: 600 yds. zero	-1.5"	16.8"	20.6"	13.2"	0.0	-160.6"
TRAJ: 1000 yds. zero	-1.5"	49.0"	68.8"	93.5"	96.4"	0.0
VELOCITY (fps)	3500	2927	2667	2189	1970	1261
ENERGY (ft.-lbs.)	2720	1902	1579	1064	861	353
TRAJ: 200 yds. zero	-1.5"	0.0	-5.0"	-30.8"	-53.9"	-262.0"
TRAJ: 300 yds. zero	-1.5"	3.3"	0.0	-22.4"	-43.9"	-245.3"
TRAJ: 500 yds. zero	-1.5"	12.3"	13.4"	0.0	-17.0"	-200.5"
TRAJ: 600 yds. zero	-1.5"	18.0"	21.9"	14.1"	0.0	-172.2"
TRAJ: 1000 yds. zero	-1.5"	52.4"	73.6"	100.2"	103.3"	0.0
VELOCITY (fps)	3400	2840	2585	2115	1900	1219
ENERGY (ft.-lbs.)	2566	1790	1483	993	802	330
TRAJ: 200 yds. zero	-1.5"	0.0	-5.4"	-32.9"	-57.6"	-281.1"
TRAJ: 300 yds. zero	-1.5"	3.6"	0.0	-23.9"	-46.9"	-263.2"
TRAJ: 500 yds. zero	-1.5"	13.2"	14.4"	0.0	-18.1"	-215.3"
TRAJ: 600 yds. zero	-1.5"	19.2"	23.4"	15.1"	0.0	-185.1"
TRAJ: 1000 yds. zero	-1.5"	56.2"	79.0"	107.7"	111.1"	0.0
VELOCITY (fps)	3300	2752	2502	2041	1831	1180
ENERGY (ft.-lbs.)	2418	1681	1389	925	744	309
TRAJ: 200 yds. zero	-1.5"	0.0	-5.8"	-35.2"	-61.7"	-302.2"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-25.6"	-50.2"	-283.0"
TRAJ: 500 yds. zero	-1.5"	14.1"	15.4"	0.0	-19.4"	-231.8"
TRAJ: 600 yds. zero	-1.5"	20.6"	25.1"	16.2"	0.0	-199.4"
TRAJ: 1000 yds. zero	-1.5"	60.4"	84.9"	115.9"	119.6"	0.0
VELOCITY (fps)	3200	2664	2418	1967	1762	1144
ENERGY (ft.-lbs.)	2273	1575	1298	859	689	290
TRAJ: 200 yds. zero	-1.5"	0.0	-6.2"	-37.8"	-66.3"	-325.6"
TRAJ: 300 yds. zero	-1.5"	4.1"	0.0	-27.5"	-53.9"	-304.9"
TRAJ: 500 yds. zero	-1.5"	15.1"	16.5"	0.0	-20.9"	-250.0"
TRAJ: 600 yds. zero	-1.5"	22.1"	26.9"	17.4"	0.0	-215.1"
TRAJ: 1000 yds. zero	-1.5"	65.1"	91.5"	125.0"	129.1"	0.0
VELOCITY (fps)	3100	2575	2335	1893	1693	1110
ENERGY (ft.-lbs.)	2133	1472	1210	795	636	274
TRAJ: 200 yds. zero	-1.5"	0.0	-6.7"	-40.7"	-71.4"	-351.5"
TRAJ: 300 yds. zero	-1.5"	4.5"	0.0	-29.6"	-58.0"	-329.2"
TRAJ: 500 yds. zero	-1.5"	16.3"	17.7"	0.0	-22.5"	-270.1"
TRAJ: 600 yds. zero	-1.5"	23.8"	29.0"	18.8"	0.0	-232.5"
TRAJ: 1000 yds. zero	-1.5"	70.3"	98.8"	135.0"	139.5"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3000	2486	2251	1818	1625	1080
ENERGY (ft.-lbs.)	1998	1373	1124	734	586	259
TRAJ: 200 yds. zero	-1.5"	0.0	-7.2"	-43.9"	-77.1"	-380.0"
TRAJ: 300 yds. zero	-1.5"	4.8"	0.0	-31.9"	-62.6"	-356.0"
TRAJ: 500 yds. zero	-1.5"	17.6"	19.1"	0.0	-24.4"	-292.2"
TRAJ: 600 yds. zero	-1.5"	25.7"	31.3"	20.3"	0.0	-251.6"
TRAJ: 1000 yds. zero	-1.5"	76.0"	106.8"	146.1"	150.9"	0.0
VELOCITY (fps)	2900	2397	2166	1745	1558	1052
ENERGY (ft.-lbs.)	1867	1276	1042	676	539	246
TRAJ: 200 yds. zero	-1.5"	0.0	-7.8"	-47.5"	-83.4"	-411.4"
TRAJ: 300 yds. zero	-1.5"	5.2"	0.0	-34.5"	-67.8"	-385.4"
TRAJ: 500 yds. zero	-1.5"	19.0"	20.7"	0.0	-26.4"	-316.4"
TRAJ: 600 yds. zero	-1.5"	27.8"	33.9"	22.0"	0.0	-272.4"
TRAJ: 1000 yds. zero	-1.5"	82.3"	115.6"	158.2"	163.4"	0.0
VELOCITY (fps)	2800	2308	2082	1671	1491	1026
ENERGY (ft.-lbs.)	1741	1183	962	620	494	234
TRAJ: 200 yds. zero	-1.5"	0.0	-8.5"	-51.6"	-90.6"	-445.9"
TRAJ: 300 yds. zero	-1.5"	5.7"	0.0	-37.4"	-73.6"	-417.6"
TRAJ: 500 yds. zero	-1.5"	20.6"	22.4"	0.0	-28.8"	-342.8"
TRAJ: 600 yds. zero	-1.5"	30.2"	36.8"	24.0"	0.0	-294.9"
TRAJ: 1000 yds. zero	-1.5"	89.2"	125.3"	171.4"	176.9"	0.0
VELOCITY (fps)	2700	2219	1997	1599	1427	1002
ENERGY (ft.-lbs.)	1618	1093	886	568	452	223
TRAJ: 200 yds. zero	-1.5"	0.0	-9.2"	-56.1"	-98.7"	-483.5"
TRAJ: 300 yds. zero	-1.5"	6.2"	0.0	-40.7"	-80.2"	-452.7"
TRAJ: 500 yds. zero	-1.5"	22.4"	24.4"	0.0	-31.4"	-371.2"
TRAJ: 600 yds. zero	-1.5"	32.9"	40.1"	26.1"	0.0	-319.0"
TRAJ: 1000 yds. zero	-1.5"	96.7"	135.8"	185.6"	191.4"	0.0
VELOCITY (fps)	2600	2129	1913	1528	1365	980
ENERGY (ft.-lbs.)	1501	1006	813	519	414	213
TRAJ: 200 yds. zero	-1.5"	0.0	-10.1"	-61.2"	-107.8"	-524.3"
TRAJ: 300 yds. zero	-1.5"	6.7"	0.0	-44.4"	-87.6"	-490.7"
TRAJ: 500 yds. zero	-1.5"	24.5"	26.7"	0.0	-34.3"	-401.8"
TRAJ: 600 yds. zero	-1.5"	35.9"	43.8"	28.6"	0.0	-344.7"
TRAJ: 1000 yds. zero	-1.5"	104.9"	147.2"	200.9"	206.8"	0.0
VELOCITY (fps)	2500	2040	1830	1459	1306	960
ENERGY (ft.-lbs.)	1388	924	743	473	378	204
TRAJ: 200 yds. zero	-1.5"	0.0	-11.0"	-67.1"	-118.1"	-568.7"
TRAJ: 300 yds. zero	-1.5"	7.4"	0.0	-48.7"	-96.0"	-531.9"
TRAJ: 500 yds. zero	-1.5"	26.8"	29.2"	0.0	-37.6"	-434.5"
TRAJ: 600 yds. zero	-1.5"	39.4"	48.0"	31.3"	0.0	-371.9"
TRAJ: 1000 yds. zero	-1.5"	113.7"	159.6"	217.3"	223.1"	0.0
VELOCITY (fps)	2400	1951	1747	1392	1249	940
ENERGY (ft.-lbs.)	1279	845	677	430	347	196
TRAJ: 200 yds. zero	-1.5"	0.0	-12.1"	-73.7"	-129.7"	-616.6"
TRAJ: 300 yds. zero	-1.5"	8.1"	0.0	-53.5"	-105.4"	-576.2"
TRAJ: 500 yds. zero	-1.5"	29.5"	32.1"	0.0	-41.3"	-469.3"
TRAJ: 600 yds. zero	-1.5"	43.2"	52.7"	34.4"	0.0	-400.4"
TRAJ: 1000 yds. zero	-1.5"	123.3"	172.9"	234.6"	240.3"	0.0
VELOCITY (fps)	2300	1862	1665	1328	1197	921
ENERGY (ft.-lbs.)	1174	770	615	392	318	188
TRAJ: 200 yds. zero	-1.5"	0.0	-13.4"	-81.2"	-142.9"	-668.4"
TRAJ: 300 yds. zero	-1.5"	8.9"	0.0	-58.9"	-116.1"	-623.8"
TRAJ: 500 yds. zero	-1.5"	32.5"	35.3"	0.0	-45.4"	-506.1"
TRAJ: 600 yds. zero	-1.5"	47.6"	58.1"	37.9"	0.0	-430.3"
TRAJ: 1000 yds. zero	-1.5"	133.7"	187.2"	253.0"	258.2"	0.0

25 CALIBER (.257" Dia.) 117 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .253 BALLISTIC COEFFICIENT: .376

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3300	2778	2539	2097	1893	1240
ENERGY (ft.-lbs.)	2829	2005	1674	1142	931	400
TRAJ: 200 yds. zero	-1.5"	0.0	-5.7"	-34.3"	-59.8"	-285.6"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-24.9"	-48.5"	-266.8"
TRAJ: 500 yds. zero	-1.5"	13.7"	14.9"	0.0	-18.6"	-217.0"
TRAJ: 600 yds. zero	-1.5"	19.9"	24.2"	15.5"	0.0	-185.9"
TRAJ: 1000 yds. zero	-1.5"	57.1"	80.0"	108.5"	111.6"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3200	2689	2455	2021	1822	1198
ENERGY (ft.-lbs.)	2660	1879	1565	1061	863	373
TRAJ: 200 yds. zero	-1.5"	0.0	-6.1"	-36.8"	-64.2"	-307.7"
TRAJ: 300 yds. zero	-1.5"	4.1"	0.0	-26.7"	-52.0"	-287.4"
TRAJ: 500 yds. zero	-1.5"	14.7"	16.0"	0.0	-20.0"	-234.1"
TRAJ: 600 yds. zero	-1.5"	21.4"	26.0"	16.7"	0.0	-200.7"
TRAJ: 1000 yds. zero	-1.5"	61.5"	86.2"	117.0"	120.4"	0.0
VELOCITY (fps)	3100	2600	2370	1945	1752	1159
ENERGY (ft.-lbs.)	2496	1756	1459	983	797	349
TRAJ: 200 yds. zero	-1.5"	0.0	-6.6"	-39.6"	-69.1"	-332.1"
TRAJ: 300 yds. zero	-1.5"	4.4"	0.0	-28.7"	-56.0"	-310.3"
TRAJ: 500 yds. zero	-1.5"	15.8"	17.2"	0.0	-21.6"	-252.9"
TRAJ: 600 yds. zero	-1.5"	23.0"	28.0"	18.0"	0.0	-217.0"
TRAJ: 1000 yds. zero	-1.5"	66.4"	93.1"	126.5"	130.2"	0.0
VELOCITY (fps)	3000	2511	2286	1870	1682	1123
ENERGY (ft.-lbs.)	2338	1638	1357	908	735	328
TRAJ: 200 yds. zero	-1.5"	0.0	-7.1"	-42.7"	-74.6"	-359.3"
TRAJ: 300 yds. zero	-1.5"	4.7"	0.0	-30.9"	-60.4"	-335.7"
TRAJ: 500 yds. zero	-1.5"	17.1"	18.5"	0.0	-23.3"	-273.9"
TRAJ: 600 yds. zero	-1.5"	24.9"	30.2"	19.4"	0.0	-235.0"
TRAJ: 1000 yds. zero	-1.5"	71.9"	100.7"	137.0"	141.0"	0.0
VELOCITY (fps)	2900	2421	2200	1795	1612	1090
ENERGY (ft.-lbs.)	2184	1523	1258	837	675	309
TRAJ: 200 yds. zero	-1.5"	0.0	-7.7"	-46.2"	-80.7"	-389.4"
TRAJ: 300 yds. zero	-1.5"	5.1"	0.0	-33.4"	-65.4"	-363.8"
TRAJ: 500 yds. zero	-1.5"	18.5"	20.1"	0.0	-25.3"	-297.0"
TRAJ: 600 yds. zero	-1.5"	26.9"	32.7"	21.1"	0.0	-254.9"
TRAJ: 1000 yds. zero	-1.5"	77.9"	109.2"	148.5"	152.9"	0.0
VELOCITY (fps)	2800	2332	2115	1720	1544	1061
ENERGY (ft.-lbs.)	2036	1412	1162	768	619	292
TRAJ: 200 yds. zero	-1.5"	0.0	-8.3"	-50.1"	-87.6"	-422.6"
TRAJ: 300 yds. zero	-1.5"	5.5"	0.0	-36.2"	-71.0"	-394.8"
TRAJ: 500 yds. zero	-1.5"	20.0"	21.7"	0.0	-27.5"	-322.4"
TRAJ: 600 yds. zero	-1.5"	29.2"	35.5"	22.9"	0.0	-276.6"
TRAJ: 1000 yds. zero	-1.5"	84.5"	118.5"	161.2"	165.9"	0.0
VELOCITY (fps)	2700	2242	2030	1646	1477	1034
ENERGY (ft.-lbs.)	1894	1305	1071	704	567	278
TRAJ: 200 yds. zero	-1.5"	0.0	-9.1"	-54.5"	-95.4"	-459.1"
TRAJ: 300 yds. zero	-1.5"	6.0"	0.0	-39.4"	-77.3"	-428.9"
TRAJ: 500 yds. zero	-1.5"	21.8"	23.7"	0.0	-29.9"	-350.0"
TRAJ: 600 yds. zero	-1.5"	31.8"	38.6"	25.0"	0.0	-300.1"
TRAJ: 1000 yds. zero	-1.5"	91.8"	128.7"	175.0"	180.1"	0.0
VELOCITY (fps)	2600	2152	1945	1573	1412	1009
ENERGY (ft.-lbs.)	1756	1203	983	643	518	264
TRAJ: 200 yds. zero	-1.5"	0.0	-9.9"	-59.5"	-104.1"	-498.9"
TRAJ: 300 yds. zero	-1.5"	6.6"	0.0	-43.0"	-84.4"	-466.0"
TRAJ: 500 yds. zero	-1.5"	23.8"	25.8"	0.0	-32.7"	-380.0"
TRAJ: 600 yds. zero	-1.5"	34.7"	42.2"	27.3"	0.0	-325.4"
TRAJ: 1000 yds. zero	-1.5"	99.8"	139.8"	190.0"	195.2"	0.0
VELOCITY (fps)	2500	2062	1861	1502	1349	986
ENERGY (ft.-lbs.)	1623	1104	899	586	473	252
TRAJ: 200 yds. zero	-1.5"	0.0	-10.8"	-65.1"	-114.0"	-542.5"
TRAJ: 300 yds. zero	-1.5"	7.2"	0.0	-47.1"	-92.4"	-506.4"
TRAJ: 500 yds. zero	-1.5"	26.0"	28.2"	0.0	-35.9"	-412.2"
TRAJ: 600 yds. zero	-1.5"	38.0"	46.2"	29.9"	0.0	-352.4"
TRAJ: 1000 yds. zero	-1.5"	108.5"	151.9"	206.1"	211.5"	0.0
VELOCITY (fps)	2400	1972	1777	1432	1290	964
ENERGY (ft.-lbs.)	1496	1010	820	533	432	241
TRAJ: 200 yds. zero	-1.5"	0.0	-11.9"	-71.5"	-125.2"	-589.7"
TRAJ: 300 yds. zero	-1.5"	7.9"	0.0	-51.7"	-101.5"	-550.1"
TRAJ: 500 yds. zero	-1.5"	28.6"	31.0"	0.0	-39.4"	-446.7"
TRAJ: 600 yds. zero	-1.5"	41.7"	50.7"	32.9"	0.0	-381.0"
TRAJ: 1000 yds. zero	-1.5"	117.9"	165.0"	223.3"	228.6"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2300	1883	1694	1366	1234	944
ENERGY (ft.-lbs.)	1374	921	745	484	395	231
TRAJ: 200 yds. zero	-1.5"	0.0	-13.1"	-78.8"	-137.9"	-640.8"
TRAJ: 300 yds. zero	-1.5"	8.7"	0.0	-56.9"	-111.7"	-597.2"
TRAJ: 500 yds. zero	-1.5"	31.5"	34.2"	0.0	-43.4"	-483.3"
TRAJ: 600 yds. zero	-1.5"	46.0"	55.9"	36.2"	0.0	-410.9"
TRAJ: 1000 yds. zero	-1.5"	128.2"	179.1"	241.6"	246.6"	0.0

25 CALIBER (.257" Dia.) 120 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .260 BALLISTIC COEFFICIENT: .394

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3300	2801	2571	2145	1948	1298
ENERGY (ft.-lbs.)	2901	2089	1761	1225	1011	449
TRAJ: 200 yds. zero	-1.5"	0.0	-5.6"	-33.5"	-58.2"	-272.3"
TRAJ: 300 yds. zero	-1.5"	3.7"	0.0	-24.3"	-47.1"	-253.7"
TRAJ: 500 yds. zero	-1.5"	13.4"	14.6"	0.0	-18.0"	-205.2"
TRAJ: 600 yds. zero	-1.5"	19.4"	23.5"	15.0"	0.0	-175.2"
TRAJ: 1000 yds. zero	-1.5"	54.5"	76.1"	102.6"	105.1"	0.0
VELOCITY (fps)	3200	2711	2486	2068	1876	1252
ENERGY (ft.-lbs.)	2728	1959	1647	1140	937	417
TRAJ: 200 yds. zero	-1.5"	0.0	-6.0"	-36.0"	-62.5"	-293.2"
TRAJ: 300 yds. zero	-1.5"	4.0"	0.0	-26.0"	-50.5"	-273.3"
TRAJ: 500 yds. zero	-1.5"	14.4"	15.6"	0.0	-19.3"	-221.3"
TRAJ: 600 yds. zero	-1.5"	20.8"	25.3"	16.1"	0.0	-189.1"
TRAJ: 1000 yds. zero	-1.5"	58.6"	82.0"	110.6"	113.4"	0.0
VELOCITY (fps)	3100	2622	2401	1992	1804	1208
ENERGY (ft.-lbs.)	2560	1832	1536	1057	867	389
TRAJ: 200 yds. zero	-1.5"	0.0	-6.5"	-38.7"	-67.2"	-316.5"
TRAJ: 300 yds. zero	-1.5"	4.3"	0.0	-27.9"	-54.3"	-295.0"
TRAJ: 500 yds. zero	-1.5"	15.5"	16.8"	0.0	-20.8"	-239.1"
TRAJ: 600 yds. zero	-1.5"	22.4"	27.2"	17.3"	0.0	-204.4"
TRAJ: 1000 yds. zero	-1.5"	63.3"	88.5"	119.5"	122.7"	0.0
VELOCITY (fps)	3000	2532	2316	1915	1732	1167
ENERGY (ft.-lbs.)	2398	1708	1429	977	799	363
TRAJ: 200 yds. zero	-1.5"	0.0	-7.0"	-41.7"	-72.5"	-342.4"
TRAJ: 300 yds. zero	-1.5"	4.6"	0.0	-30.1"	-58.6"	-319.2"
TRAJ: 500 yds. zero	-1.5"	16.7"	18.1"	0.0	-22.5"	-258.9"
TRAJ: 600 yds. zero	-1.5"	24.2"	29.3"	18.7"	0.0	-221.5"
TRAJ: 1000 yds. zero	-1.5"	68.5"	95.7"	129.5"	132.9"	0.0
VELOCITY (fps)	2900	2442	2230	1838	1661	1129
ENERGY (ft.-lbs.)	2240	1589	1325	900	735	340
TRAJ: 200 yds. zero	-1.5"	0.0	-7.5"	-45.1"	-78.5"	-371.2"
TRAJ: 300 yds. zero	-1.5"	5.0"	0.0	-32.5"	-63.4"	-346.1"
TRAJ: 500 yds. zero	-1.5"	18.0"	19.5"	0.0	-24.3"	-281.0"
TRAJ: 600 yds. zero	-1.5"	26.2"	31.7"	20.3"	0.0	-240.4"
TRAJ: 1000 yds. zero	-1.5"	74.2"	103.8"	140.5"	144.3"	0.0
VELOCITY (fps)	2800	2352	2144	1762	1590	1095
ENERGY (ft.-lbs.)	2089	1474	1225	827	674	319
TRAJ: 200 yds. zero	-1.5"	0.0	-8.2"	-48.9"	-85.1"	-403.2"
TRAJ: 300 yds. zero	-1.5"	5.5"	0.0	-35.3"	-68.8"	-375.9"
TRAJ: 500 yds. zero	-1.5"	19.6"	21.2"	0.0	-26.4"	-305.3"
TRAJ: 600 yds. zero	-1.5"	28.4"	34.4"	22.0"	0.0	-261.3"
TRAJ: 1000 yds. zero	-1.5"	80.6"	112.8"	152.7"	156.8"	0.0
VELOCITY (fps)	2700	2262	2058	1687	1521	1064
ENERGY (ft.-lbs.)	1942	1363	1129	758	617	302
TRAJ: 200 yds. zero	-1.5"	0.0	-8.9"	-53.2"	-92.6"	-438.5"
TRAJ: 300 yds. zero	-1.5"	5.9"	0.0	-38.4"	-74.8"	-408.8"
TRAJ: 500 yds. zero	-1.5"	21.3"	23.0"	0.0	-28.8"	-332.1"
TRAJ: 600 yds. zero	-1.5"	30.9"	37.4"	24.0"	0.0	-284.1"
TRAJ: 1000 yds. zero	-1.5"	87.7"	122.6"	166.0"	170.5"	0.0
VELOCITY (fps)	2600	2171	1973	1612	1454	1036
ENERGY (ft.-lbs.)	1801	1256	1037	693	563	286
TRAJ: 200 yds. zero	-1.5"	0.0	-9.7"	-58.0"	-101.1"	-477.4"
TRAJ: 300 yds. zero	-1.5"	6.5"	0.0	-41.8"	-81.7"	-445.0"
TRAJ: 500 yds. zero	-1.5"	23.2"	25.1"	0.0	-31.5"	-361.3"
TRAJ: 600 yds. zero	-1.5"	33.7"	40.8"	26.2"	0.0	-308.9"
TRAJ: 1000 yds. zero	-1.5"	95.5"	133.5"	180.7"	185.3"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2500	2081	1887	1539	1389	1010
ENERGY (ft.-lbs.)	1665	1153	949	631	514	272
TRAJ: 200 yds. zero	-1.5"	0.0	-10.6"	-63.5"	-110.7"	-520.0"
TRAJ: 300 yds. zero	-1.5"	7.1"	0.0	-45.8"	-89.4"	-484.5"
TRAJ: 500 yds. zero	-1.5"	25.4"	27.5"	0.0	-34.5"	-393.0"
TRAJ: 600 yds. zero	-1.5"	36.9"	44.7"	28.7"	0.0	-335.5"
TRAJ: 1000 yds. zero	-1.5"	104.0"	145.3"	196.5"	201.3"	0.0
VELOCITY (fps)	2400	1991	1803	1468	1327	987
ENERGY (ft.-lbs.)	1535	1056	866	574	469	259
TRAJ: 200 yds. zero	-1.5"	0.0	-11.7"	-69.7"	-121.6"	-566.5"
TRAJ: 300 yds. zero	-1.5"	7.8"	0.0	-50.2"	-98.2"	-527.5"
TRAJ: 500 yds. zero	-1.5"	27.9"	30.1"	0.0	-37.9"	-427.1"
TRAJ: 600 yds. zero	-1.5"	40.5"	49.1"	31.6"	0.0	-363.9"
TRAJ: 1000 yds. zero	-1.5"	113.3"	158.3"	213.5"	218.3"	0.0
VELOCITY (fps)	2300	1901	1719	1399	1267	965
ENERGY (ft.-lbs.)	1409	962	787	521	428	248
TRAJ: 200 yds. zero	-1.5"	0.0	-12.9"	-76.8"	-133.9"	-617.0"
TRAJ: 300 yds. zero	-1.5"	8.6"	0.0	-55.3"	-108.1"	-574.1"
TRAJ: 500 yds. zero	-1.5"	30.7"	33.2"	0.0	-41.7"	-463.4"
TRAJ: 600 yds. zero	-1.5"	44.6"	54.1"	34.8"	0.0	-393.9"
TRAJ: 1000 yds. zero	-1.5"	123.4"	172.2"	231.7"	236.3"	0.0

6.5MM CALIBER (.264" Dia.) 129 GRAIN SPIRE POINT

SECTIONAL DENSITY: .264 BALLISTIC COEFFICIENT: .445

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3300	2855	2648	2262	2082	1457
ENERGY (ft.-lbs.)	3119	2334	2009	1466	1241	608
TRAJ: 200 yds. zero	-1.5"	0.0	-5.4"	-31.8"	-54.7"	-243.7"
TRAJ: 300 yds. zero	-1.5"	3.6"	0.0	-22.9"	-44.0"	-225.9"
TRAJ: 500 yds. zero	-1.5"	12.7"	13.7"	0.0	-16.6"	-180.1"
TRAJ: 600 yds. zero	-1.5"	18.2"	22.0"	13.8"	0.0	-152.6"
TRAJ: 1000 yds. zero	-1.5"	48.7"	67.8"	90.1"	91.5"	0.0
VELOCITY (fps)	3200	2765	2562	2184	2007	1401
ENERGY (ft.-lbs.)	2933	2189	1880	1366	1153	562
TRAJ: 200 yds. zero	-1.5"	0.0	-5.8"	-34.1"	-58.7"	-262.1"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-24.5"	-47.1"	-242.9"
TRAJ: 500 yds. zero	-1.5"	13.6"	14.7"	0.0	-17.7"	-193.9"
TRAJ: 600 yds. zero	-1.5"	19.6"	23.6"	14.8"	0.0	-164.4"
TRAJ: 1000 yds. zero	-1.5"	52.4"	72.9"	97.0"	98.6"	0.0
VELOCITY (fps)	3100	2674	2476	2104	1932	1347
ENERGY (ft.-lbs.)	2752	2048	1755	1268	1068	519
TRAJ: 200 yds. zero	-1.5"	0.0	-6.2"	-36.7"	-63.1"	-282.6"
TRAJ: 300 yds. zero	-1.5"	4.1"	0.0	-26.3"	-50.6"	-261.9"
TRAJ: 500 yds. zero	-1.5"	14.7"	15.8"	0.0	-19.1"	-209.3"
TRAJ: 600 yds. zero	-1.5"	21.0"	25.3"	15.9"	0.0	-177.5"
TRAJ: 1000 yds. zero	-1.5"	56.5"	78.6"	104.6"	106.5"	0.0
VELOCITY (fps)	3000	2583	2389	2025	1856	1295
ENERGY (ft.-lbs.)	2578	1911	1634	1175	987	480
TRAJ: 200 yds. zero	-1.5"	0.0	-6.7"	-39.5"	-68.0"	-305.5"
TRAJ: 300 yds. zero	-1.5"	4.5"	0.0	-28.3"	-54.6"	-283.1"
TRAJ: 500 yds. zero	-1.5"	15.8"	17.0"	0.0	-20.6"	-226.5"
TRAJ: 600 yds. zero	-1.5"	22.7"	27.3"	17.1"	0.0	-192.2"
TRAJ: 1000 yds. zero	-1.5"	61.1"	84.9"	113.2"	115.3"	0.0
VELOCITY (fps)	2900	2492	2302	1946	1781	1245
ENERGY (ft.-lbs.)	2409	1779	1517	1084	909	444
TRAJ: 200 yds. zero	-1.5"	0.0	-7.3"	-42.7"	-73.5"	-331.1"
TRAJ: 300 yds. zero	-1.5"	4.8"	0.0	-30.6"	-58.9"	-306.9"
TRAJ: 500 yds. zero	-1.5"	17.1"	18.3"	0.0	-22.3"	-245.7"
TRAJ: 600 yds. zero	-1.5"	24.5"	29.5"	18.5"	0.0	-208.7"
TRAJ: 1000 yds. zero	-1.5"	66.2"	92.1"	122.9"	125.2"	0.0
VELOCITY (fps)	2800	2401	2214	1867	1707	1199
ENERGY (ft.-lbs.)	2245	1651	1404	998	834	412
TRAJ: 200 yds. zero	-1.5"	0.0	-7.9"	-46.2"	-79.6"	-359.7"
TRAJ: 300 yds. zero	-1.5"	5.2"	0.0	-33.1"	-63.9"	-333.5"
TRAJ: 500 yds. zero	-1.5"	18.5"	19.9"	0.0	-24.1"	-267.3"
TRAJ: 600 yds. zero	-1.5"	26.5"	31.9"	20.1"	0.0	-227.0"
TRAJ: 1000 yds. zero	-1.5"	71.9"	100.0"	133.6"	136.2"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2700	2310	2127	1788	1633	1156
ENERGY (ft.-lbs.)	2088	1528	1296	916	764	383
TRAJ: 200 yds. zero	-1.5"	0.0	-8.6"	-50.2"	-86.5"	-391.7"
TRAJ: 300 yds. zero	-1.5"	5.7"	0.0	-36.0"	-69.4"	-363.2"
TRAJ: 500 yds. zero	-1.5"	20.1"	21.6"	0.0	-26.3"	-291.3"
TRAJ: 600 yds. zero	-1.5"	28.8"	34.7"	21.9"	0.0	-247.5"
TRAJ: 1000 yds. zero	-1.5"	78.3"	109.0"	145.6"	148.5"	0.0
VELOCITY (fps)	2600	2218	2040	1710	1561	1117
ENERGY (ft.-lbs.)	1936	1409	1191	837	698	357
TRAJ: 200 yds. zero	-1.5"	0.0	-9.3"	-54.7"	-94.4"	-427.5"
TRAJ: 300 yds. zero	-1.5"	6.2"	0.0	-39.2"	-75.7"	-396.4"
TRAJ: 500 yds. zero	-1.5"	21.9"	23.5"	0.0	-28.7"	-318.0"
TRAJ: 600 yds. zero	-1.5"	31.5"	37.8"	23.9"	0.0	-270.2"
TRAJ: 1000 yds. zero	-1.5"	85.5"	118.9"	159.0"	162.1"	0.0
VELOCITY (fps)	2500	2127	1953	1633	1490	1082
ENERGY (ft.-lbs.)	1790	1295	1092	764	636	335
TRAJ: 200 yds. zero	-1.5"	0.0	-10.2"	-59.8"	-103.2"	-467.3"
TRAJ: 300 yds. zero	-1.5"	6.8"	0.0	-42.8"	-82.8"	-433.2"
TRAJ: 500 yds. zero	-1.5"	23.9"	25.7"	0.0	-31.4"	-347.6"
TRAJ: 600 yds. zero	-1.5"	34.4"	41.4"	26.2"	0.0	-295.3"
TRAJ: 1000 yds. zero	-1.5"	93.5"	130.0"	173.8"	177.2"	0.0
VELOCITY (fps)	2400	2035	1866	1557	1422	1051
ENERGY (ft.-lbs.)	1650	1186	997	695	579	316
TRAJ: 200 yds. zero	-1.5"	0.0	-11.2"	-65.6"	-113.3"	-511.3"
TRAJ: 300 yds. zero	-1.5"	7.5"	0.0	-47.0"	-90.8"	-473.9"
TRAJ: 500 yds. zero	-1.5"	26.3"	28.2"	0.0	-34.5"	-380.0"
TRAJ: 600 yds. zero	-1.5"	37.8"	45.4"	28.7"	0.0	-322.5"
TRAJ: 1000 yds. zero	-1.5"	102.3"	142.2"	190.0"	193.5"	0.0
VELOCITY (fps)	2300	1944	1780	1484	1356	1022
ENERGY (ft.-lbs.)	1515	1083	907	630	526	299
TRAJ: 200 yds. zero	-1.5"	0.0	-12.3"	-72.3"	-124.7"	-559.8"
TRAJ: 300 yds. zero	-1.5"	8.2"	0.0	-51.7"	-100.0"	-518.6"
TRAJ: 500 yds. zero	-1.5"	28.9"	31.0"	0.0	-38.0"	-415.2"
TRAJ: 600 yds. zero	-1.5"	41.6"	50.0"	31.6"	0.0	-352.0"
TRAJ: 1000 yds. zero	-1.5"	112.0"	155.6"	207.6"	211.2"	0.0
VELOCITY (fps)	2200	1854	1695	1412	1293	996
ENERGY (ft.-lbs.)	1386	984	823	571	479	284
TRAJ: 200 yds. zero	-1.5"	0.0	-13.6"	-79.8"	-137.7"	-612.9"
TRAJ: 300 yds. zero	-1.5"	9.1"	0.0	-57.1"	-110.4"	-567.4"
TRAJ: 500 yds. zero	-1.5"	31.9"	34.2"	0.0	-41.9"	-453.3"
TRAJ: 600 yds. zero	-1.5"	45.9"	55.2"	34.9"	0.0	-383.4"
TRAJ: 1000 yds. zero	-1.5"	122.6"	170.2"	226.6"	230.1"	0.0
VELOCITY (fps)	2100	1764	1611	1344	1234	972
ENERGY (ft.-lbs.)	1263	891	743	517	436	271
TRAJ: 200 yds. zero	-1.5"	0.0	-15.1"	-88.4"	-152.5"	-670.8"
TRAJ: 300 yds. zero	-1.5"	10.1"	0.0	-63.2"	-122.2"	-620.3"
TRAJ: 500 yds. zero	-1.5"	35.4"	37.9"	0.0	-46.4"	-493.9"
TRAJ: 600 yds. zero	-1.5"	50.8"	61.1"	38.6"	0.0	-416.6"
TRAJ: 1000 yds. zero	-1.5"	134.2"	186.1"	246.9"	250.0"	0.0
VELOCITY (fps)	2000	1675	1529	1279	1180	950
ENERGY (ft.-lbs.)	1146	803	669	468	399	258
TRAJ: 200 yds. zero	-1.5"	0.0	-16.9"	-98.3"	-169.3"	-733.6"
TRAJ: 300 yds. zero	-1.5"	11.2"	0.0	-70.2"	-135.6"	-677.4"
TRAJ: 500 yds. zero	-1.5"	39.3"	42.1"	0.0	-51.4"	-537.0"
TRAJ: 600 yds. zero	-1.5"	56.4"	67.8"	42.8"	0.0	-451.4"
TRAJ: 1000 yds. zero	-1.5"	146.7"	203.2"	268.5"	270.8"	0.0
VELOCITY (fps)	1900	1587	1449	1218	1131	928
ENERGY (ft.-lbs.)	1034	721	601	425	366	247
TRAJ: 200 yds. zero	-1.5"	0.0	-18.8"	-109.6"	-188.5"	-801.8"
TRAJ: 300 yds. zero	-1.5"	12.6"	0.0	-78.2"	-150.8"	-739.0"
TRAJ: 500 yds. zero	-1.5"	43.9"	46.9"	0.0	-56.9"	-582.5"
TRAJ: 600 yds. zero	-1.5"	62.8"	75.4"	47.4"	0.0	-487.7"
TRAJ: 1000 yds. zero	-1.5"	160.4"	221.7"	291.3"	292.6"	0.0

6.5MM CALIBER (.264" Dia.) 140 GRAIN SPIRE POINT
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .465

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3200	2783	2588	2223	2052	1456
ENERGY (ft.-lbs.)	3183	2406	2082	1536	1308	659
TRAJ: 200 yds. zero	-1.5"	0.0	-5.7"	-33.5"	-57.5"	-252.8"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-24.0"	-46.1"	-233.8"
TRAJ: 500 yds. zero	-1.5"	13.4"	14.4"	0.0	-17.3"	-185.8"
TRAJ: 600 yds. zero	-1.5"	19.2"	23.0"	14.4"	0.0	-157.0"
TRAJ: 1000 yds. zero	-1.5"	50.6"	70.2"	92.9"	94.2"	0.0
VELOCITY (fps)	3100	2692	2501	2143	1975	1399
ENERGY (ft.-lbs.)	2987	2252	1944	1427	1213	609
TRAJ: 200 yds. zero	-1.5"	0.0	-6.1"	-36.0"	-61.8"	-272.5"
TRAJ: 300 yds. zero	-1.5"	4.1"	0.0	-25.8"	-49.5"	-252.0"
TRAJ: 500 yds. zero	-1.5"	14.4"	15.5"	0.0	-18.6"	-200.5"
TRAJ: 600 yds. zero	-1.5"	20.6"	24.7"	15.5"	0.0	-169.5"
TRAJ: 1000 yds. zero	-1.5"	54.5"	75.6"	100.2"	101.7"	0.0
VELOCITY (fps)	3000	2601	2414	2063	1899	1344
ENERGY (ft.-lbs.)	2797	2102	1811	1322	1121	561
TRAJ: 200 yds. zero	-1.5"	0.0	-6.6"	-38.8"	-66.5"	-294.4"
TRAJ: 300 yds. zero	-1.5"	4.4"	0.0	-27.8"	-53.3"	-272.3"
TRAJ: 500 yds. zero	-1.5"	15.5"	16.7"	0.0	-20.0"	-216.8"
TRAJ: 600 yds. zero	-1.5"	22.2"	26.6"	16.7"	0.0	-183.5"
TRAJ: 1000 yds. zero	-1.5"	58.9"	81.7"	108.4"	110.1"	0.0
VELOCITY (fps)	2900	2509	2326	1982	1823	1291
ENERGY (ft.-lbs.)	2614	1957	1681	1222	1033	518
TRAJ: 200 yds. zero	-1.5"	0.0	-7.2"	-41.9"	-71.9"	-318.9"
TRAJ: 300 yds. zero	-1.5"	4.8"	0.0	-30.0"	-57.6"	-295.0"
TRAJ: 500 yds. zero	-1.5"	16.8"	18.0"	0.0	-21.6"	-235.1"
TRAJ: 600 yds. zero	-1.5"	24.0"	28.8"	18.0"	0.0	-199.1"
TRAJ: 1000 yds. zero	-1.5"	63.8"	88.5"	117.6"	119.5"	0.0
VELOCITY (fps)	2800	2417	2238	1902	1747	1241
ENERGY (ft.-lbs.)	2437	1816	1557	1125	949	478
TRAJ: 200 yds. zero	-1.5"	0.0	-7.8"	-45.4"	-77.9"	-346.4"
TRAJ: 300 yds. zero	-1.5"	5.2"	0.0	-32.4"	-62.3"	-320.5"
TRAJ: 500 yds. zero	-1.5"	18.1"	19.5"	0.0	-23.4"	-255.7"
TRAJ: 600 yds. zero	-1.5"	26.0"	31.2"	19.5"	0.0	-216.6"
TRAJ: 1000 yds. zero	-1.5"	69.3"	96.2"	127.8"	130.0"	0.0
VELOCITY (fps)	2700	2326	2150	1823	1672	1194
ENERGY (ft.-lbs.)	2266	1681	1437	1033	869	443
TRAJ: 200 yds. zero	-1.5"	0.0	-8.5"	-49.3"	-84.6"	-377.2"
TRAJ: 300 yds. zero	-1.5"	5.6"	0.0	-35.2"	-67.7"	-349.1"
TRAJ: 500 yds. zero	-1.5"	19.7"	21.1"	0.0	-25.5"	-278.7"
TRAJ: 600 yds. zero	-1.5"	28.2"	33.9"	21.2"	0.0	-236.2"
TRAJ: 1000 yds. zero	-1.5"	75.4"	104.7"	139.3"	141.7"	0.0
VELOCITY (fps)	2600	2234	2062	1744	1598	1151
ENERGY (ft.-lbs.)	2101	1551	1322	945	794	411
TRAJ: 200 yds. zero	-1.5"	0.0	-9.2"	-53.7"	-92.2"	-411.8"
TRAJ: 300 yds. zero	-1.5"	6.1"	0.0	-38.3"	-73.8"	-381.1"
TRAJ: 500 yds. zero	-1.5"	21.5"	23.0"	0.0	-27.8"	-304.4"
TRAJ: 600 yds. zero	-1.5"	30.7"	36.9"	23.2"	0.0	-258.0"
TRAJ: 1000 yds. zero	-1.5"	82.4"	114.3"	152.2"	154.8"	0.0
VELOCITY (fps)	2500	2142	1974	1665	1526	1112
ENERGY (ft.-lbs.)	1943	1426	1212	862	724	384
TRAJ: 200 yds. zero	-1.5"	0.0	-10.1"	-58.7"	-100.9"	-450.4"
TRAJ: 300 yds. zero	-1.5"	6.7"	0.0	-41.9"	-80.7"	-416.8"
TRAJ: 500 yds. zero	-1.5"	23.5"	25.1"	0.0	-30.4"	-333.0"
TRAJ: 600 yds. zero	-1.5"	33.6"	40.4"	25.4"	0.0	-282.3"
TRAJ: 1000 yds. zero	-1.5"	90.1"	125.0"	166.5"	169.4"	0.0
VELOCITY (fps)	2400	2050	1887	1588	1455	1077
ENERGY (ft.-lbs.)	1790	1306	1107	784	658	360
TRAJ: 200 yds. zero	-1.5"	0.0	-11.1"	-64.4"	-110.7"	-493.4"
TRAJ: 300 yds. zero	-1.5"	7.4"	0.0	-45.9"	-88.5"	-456.5"
TRAJ: 500 yds. zero	-1.5"	25.7"	27.6"	0.0	-33.4"	-364.6"
TRAJ: 600 yds. zero	-1.5"	36.9"	44.3"	27.8"	0.0	-308.9"
TRAJ: 1000 yds. zero	-1.5"	98.7"	136.9"	182.3"	185.3"	0.0

BALLISTICS TABLES: LONG RANGE RIFLE

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2300	1959	1800	1513	1387	1045
ENERGY (ft.-lbs.)	1644	1193	1008	712	598	340
TRAJ: 200 yds. zero	-1.5"	0.0	-12.2"	-70.8"	-121.8"	-540.9"
TRAJ: 300 yds. zero	-1.5"	8.1"	0.0	-50.5"	-97.4"	-500.3"
TRAJ: 500 yds. zero	-1.5"	28.3"	30.3"	0.0	-36.8"	-399.2"
TRAJ: 600 yds. zero	-1.5"	40.6"	48.7"	30.7"	0.0	-337.9"
TRAJ: 1000 yds. zero	-1.5"	108.2"	150.1"	199.6"	202.7"	0.0
VELOCITY (fps)	2200	1868	1715	1440	1322	1017
ENERGY (ft.-lbs.)	1504	1084	914	645	543	321
TRAJ: 200 yds. zero	-1.5"	0.0	-13.5"	-78.2"	-134.5"	-593.2"
TRAJ: 300 yds. zero	-1.5"	9.0"	0.0	-55.8"	-107.6"	-548.4"
TRAJ: 500 yds. zero	-1.5"	31.3"	33.5"	0.0	-40.6"	-436.8"
TRAJ: 600 yds. zero	-1.5"	44.8"	53.8"	33.9"	0.0	-369.1"
TRAJ: 1000 yds. zero	-1.5"	118.6"	164.5"	218.4"	221.5"	0.0
VELOCITY (fps)	2100	1778	1630	1370	1260	991
ENERGY (ft.-lbs.)	1371	982	826	583	494	305
TRAJ: 200 yds. zero	-1.5"	0.0	-14.9"	-86.7"	-148.9"	-650.5"
TRAJ: 300 yds. zero	-1.5"	10.0"	0.0	-61.8"	-119.1"	-600.8"
TRAJ: 500 yds. zero	-1.5"	34.7"	37.1"	0.0	-45.0"	-477.2"
TRAJ: 600 yds. zero	-1.5"	49.6"	59.5"	37.5"	0.0	-402.3"
TRAJ: 1000 yds. zero	-1.5"	130.1"	180.2"	238.6"	241.4"	0.0
VELOCITY (fps)	2000	1688	1547	1302	1203	967
ENERGY (ft.-lbs.)	1243	886	744	527	450	290
TRAJ: 200 yds. zero	-1.5"	0.0	-16.6"	-96.3"	-165.5"	-713.1"
TRAJ: 300 yds. zero	-1.5"	11.1"	0.0	-68.6"	-132.2"	-657.7"
TRAJ: 500 yds. zero	-1.5"	38.5"	41.2"	0.0	-49.9"	-520.4"
TRAJ: 600 yds. zero	-1.5"	55.2"	66.1"	41.5"	0.0	-437.3"
TRAJ: 1000 yds. zero	-1.5"	142.6"	197.3"	260.2"	262.4"	0.0
VELOCITY (fps)	1900	1600	1466	1239	1151	944
ENERGY (ft.-lbs.)	1122	795	668	477	412	277
TRAJ: 200 yds. zero	-1.5"	0.0	-18.6"	-107.5"	-184.3"	-781.0"
TRAJ: 300 yds. zero	-1.5"	12.4"	0.0	-76.5"	-147.1"	-719.1"
TRAJ: 500 yds. zero	-1.5"	43.0"	45.9"	0.0	-55.3"	-566.1"
TRAJ: 600 yds. zero	-1.5"	61.4"	73.5"	46.1"	0.0	-473.9"
TRAJ: 1000 yds. zero	-1.5"	156.2"	215.7"	283.0"	284.3"	0.0
VELOCITY (fps)	1800	1513	1387	1181	1105	922
ENERGY (ft.-lbs.)	1007	711	598	433	379	264
TRAJ: 200 yds. zero	-1.5"	0.0	-20.9"	-120.2"	-205.6"	-854.6"
TRAJ: 300 yds. zero	-1.5"	13.9"	0.0	-85.4"	-163.8"	-785.1"
TRAJ: 500 yds. zero	-1.5"	48.1"	51.3"	0.0	-61.3"	-614.2"
TRAJ: 600 yds. zero	-1.5"	68.5"	81.9"	51.1"	0.0	-512.0"
TRAJ: 1000 yds. zero	-1.5"	170.9"	235.5"	307.1"	307.2"	0.0

6.5MM CALIBER (.264" Dia.) 140 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .484

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3200	2798	2610	2257	2091	1507
ENERGY (ft.-lbs.)	3183	2434	2118	1584	1359	706
TRAJ: 200 yds. zero	-1.5"	0.0	-5.6"	-33.0"	-56.5"	-245.1"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-23.6"	-45.2"	-226.3"
TRAJ: 500 yds. zero	-1.5"	13.2"	14.2"	0.0	-16.9"	-179.1"
TRAJ: 600 yds. zero	-1.5"	18.8"	22.6"	14.0"	0.0	-151.0"
TRAJ: 1000 yds. zero	-1.5"	49.0"	67.9"	89.5"	90.6"	0.0
VELOCITY (fps)	3100	2707	2523	2177	2014	1448
ENERGY (ft.-lbs.)	2987	2278	1978	1473	1261	651
TRAJ: 200 yds. zero	-1.5"	0.0	-6.1"	-35.5"	-60.7"	-264.0"
TRAJ: 300 yds. zero	-1.5"	4.0"	0.0	-25.3"	-48.5"	-243.8"
TRAJ: 500 yds. zero	-1.5"	14.2"	15.2"	0.0	-18.1"	-193.1"
TRAJ: 600 yds. zero	-1.5"	20.2"	24.3"	15.1"	0.0	-162.9"
TRAJ: 1000 yds. zero	-1.5"	52.8"	73.1"	96.5"	97.7"	0.0
VELOCITY (fps)	3000	2616	2435	2096	1937	1390
ENERGY (ft.-lbs.)	2797	2126	1843	1365	1166	600
TRAJ: 200 yds. zero	-1.5"	0.0	-6.6"	-38.2"	-65.3"	-285.1"
TRAJ: 300 yds. zero	-1.5"	4.4"	0.0	-27.3"	-52.2"	-263.3"
TRAJ: 500 yds. zero	-1.5"	15.3"	16.4"	0.0	-19.5"	-208.7"
TRAJ: 600 yds. zero	-1.5"	21.8"	26.1"	16.3"	0.0	-176.2"
TRAJ: 1000 yds. zero	-1.5"	57.0"	79.0"	104.4"	105.7"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2900	2524	2347	2015	1860	1334
ENERGY (ft.-lbs.)	2614	1980	1712	1262	1075	553
TRAJ: 200 yds. zero	-1.5"	0.0	-7.1"	-41.2"	-70.6"	-308.8"
TRAJ: 300 yds. zero	-1.5"	4.7"	0.0	-29.4"	-56.4"	-285.2"
TRAJ: 500 yds. zero	-1.5"	16.5"	17.7"	0.0	-21.1"	-226.3"
TRAJ: 600 yds. zero	-1.5"	23.5"	28.2"	17.6"	0.0	-191.2"
TRAJ: 1000 yds. zero	-1.5"	61.8"	85.5"	113.2"	114.7"	0.0
VELOCITY (fps)	2800	2432	2259	1934	1783	1280
ENERGY (ft.-lbs.)	2437	1838	1586	1162	988	509
TRAJ: 200 yds. zero	-1.5"	0.0	-7.7"	-44.7"	-76.4"	-335.3"
TRAJ: 300 yds. zero	-1.5"	5.1"	0.0	-31.8"	-61.1"	-309.7"
TRAJ: 500 yds. zero	-1.5"	17.9"	19.1"	0.0	-22.8"	-246.0"
TRAJ: 600 yds. zero	-1.5"	25.5"	30.5"	19.0"	0.0	-207.9"
TRAJ: 1000 yds. zero	-1.5"	67.1"	92.9"	123.0"	124.8"	0.0
VELOCITY (fps)	2700	2340	2170	1853	1707	1230
ENERGY (ft.-lbs.)	2266	1702	1464	1068	905	470
TRAJ: 200 yds. zero	-1.5"	0.0	-8.4"	-48.5"	-83.0"	-365.1"
TRAJ: 300 yds. zero	-1.5"	5.6"	0.0	-34.6"	-66.3"	-337.2"
TRAJ: 500 yds. zero	-1.5"	19.4"	20.7"	0.0	-24.8"	-268.1"
TRAJ: 600 yds. zero	-1.5"	27.7"	33.2"	20.7"	0.0	-226.7"
TRAJ: 1000 yds. zero	-1.5"	73.0"	101.2"	134.1"	136.0"	0.0
VELOCITY (fps)	2600	2248	2082	1773	1632	1183
ENERGY (ft.-lbs.)	2101	1570	1347	977	827	435
TRAJ: 200 yds. zero	-1.5"	0.0	-9.1"	-52.8"	-90.5"	-398.5"
TRAJ: 300 yds. zero	-1.5"	6.1"	0.0	-37.6"	-72.2"	-368.1"
TRAJ: 500 yds. zero	-1.5"	21.1"	22.6"	0.0	-27.1"	-292.9"
TRAJ: 600 yds. zero	-1.5"	30.2"	36.1"	22.6"	0.0	-247.7"
TRAJ: 1000 yds. zero	-1.5"	79.7"	110.4"	146.4"	148.6"	0.0
VELOCITY (fps)	2500	2155	1994	1694	1558	1140
ENERGY (ft.-lbs.)	1943	1444	1236	892	754	404
TRAJ: 200 yds. zero	-1.5"	0.0	-10.0"	-57.7"	-98.9"	-436.0"
TRAJ: 300 yds. zero	-1.5"	6.6"	0.0	-41.1"	-79.0"	-402.8"
TRAJ: 500 yds. zero	-1.5"	23.1"	24.7"	0.0	-29.6"	-320.6"
TRAJ: 600 yds. zero	-1.5"	33.0"	39.5"	24.7"	0.0	-271.2"
TRAJ: 1000 yds. zero	-1.5"	87.2"	120.8"	160.3"	162.7"	0.0
VELOCITY (fps)	2400	2063	1906	1616	1486	1101
ENERGY (ft.-lbs.)	1790	1323	1129	812	686	377
TRAJ: 200 yds. zero	-1.5"	0.0	-10.9"	-63.3"	-108.5"	-477.9"
TRAJ: 300 yds. zero	-1.5"	7.3"	0.0	-45.1"	-86.6"	-441.5"
TRAJ: 500 yds. zero	-1.5"	25.3"	27.0"	0.0	-32.5"	-351.4"
TRAJ: 600 yds. zero	-1.5"	36.2"	43.3"	27.1"	0.0	-297.2"
TRAJ: 1000 yds. zero	-1.5"	95.6"	132.4"	175.7"	178.3"	0.0
VELOCITY (fps)	2300	1972	1819	1539	1416	1067
ENERGY (ft.-lbs.)	1644	1208	1028	737	623	354
TRAJ: 200 yds. zero	-1.5"	0.0	-12.0"	-69.6"	-119.3"	-524.6"
TRAJ: 300 yds. zero	-1.5"	8.0"	0.0	-49.6"	-95.3"	-484.4"
TRAJ: 500 yds. zero	-1.5"	27.8"	29.7"	0.0	-35.8"	-385.3"
TRAJ: 600 yds. zero	-1.5"	39.8"	47.6"	29.8"	0.0	-325.7"
TRAJ: 1000 yds. zero	-1.5"	104.9"	145.3"	192.7"	195.4"	0.0
VELOCITY (fps)	2200	1880	1732	1465	1348	1036
ENERGY (ft.-lbs.)	1504	1099	933	667	565	334
TRAJ: 200 yds. zero	-1.5"	0.0	-13.3"	-76.9"	-131.8"	-576.2"
TRAJ: 300 yds. zero	-1.5"	8.9"	0.0	-54.7"	-105.2"	-531.8"
TRAJ: 500 yds. zero	-1.5"	30.7"	32.8"	0.0	-39.5"	-422.4"
TRAJ: 600 yds. zero	-1.5"	43.9"	52.6"	32.9"	0.0	-356.6"
TRAJ: 1000 yds. zero	-1.5"	115.2"	159.5"	211.2"	213.9"	0.0
VELOCITY (fps)	2100	1790	1647	1393	1285	1008
ENERGY (ft.-lbs.)	1371	995	843	603	513	316
TRAJ: 200 yds. zero	-1.5"	0.0	-14.7"	-85.2"	-145.9"	-632.9"
TRAJ: 300 yds. zero	-1.5"	9.8"	0.0	-60.6"	-116.4"	-583.7"
TRAJ: 500 yds. zero	-1.5"	34.1"	36.3"	0.0	-43.8"	-462.6"
TRAJ: 600 yds. zero	-1.5"	48.6"	58.2"	36.5"	0.0	-389.6"
TRAJ: 1000 yds. zero	-1.5"	126.6"	175.1"	231.3"	233.8"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2000	1700	1563	1324	1225	982
ENERGY (ft.-lbs.)	1243	898	759	545	466	300
TRAJ: 200 yds. zero	-1.5"	0.0	-16.4"	-94.7"	-162.1"	-695.0"
TRAJ: 300 yds. zero	-1.5"	10.9"	0.0	-67.3"	-129.3"	-640.2"
TRAJ: 500 yds. zero	-1.5"	37.9"	40.4"	0.0	-48.5"	-505.6"
TRAJ: 600 yds. zero	-1.5"	54.0"	64.7"	40.5"	0.0	-424.7"
TRAJ: 1000 yds. zero	-1.5"	139.0"	192.1"	252.8"	254.8"	0.0
VELOCITY (fps)	1900	1611	1481	1259	1170	958
ENERGY (ft.-lbs.)	1122	806	682	492	426	285
TRAJ: 200 yds. zero	-1.5"	0.0	-18.4"	-105.6"	-180.6"	-762.6"
TRAJ: 300 yds. zero	-1.5"	12.2"	0.0	-75.0"	-143.9"	-701.4"
TRAJ: 500 yds. zero	-1.5"	42.2"	45.0"	0.0	-53.9"	-551.4"
TRAJ: 600 yds. zero	-1.5"	60.2"	72.0"	44.9"	0.0	-461.6"
TRAJ: 1000 yds. zero	-1.5"	152.5"	210.4"	275.7"	277.0"	0.0
VELOCITY (fps)	1800	1523	1401	1198	1121	935
ENERGY (ft.-lbs.)	1007	721	610	446	391	272
TRAJ: 200 yds. zero	-1.5"	0.0	-20.6"	-118.2"	-201.6"	-836.1"
TRAJ: 300 yds. zero	-1.5"	13.7"	0.0	-83.8"	-160.4"	-767.4"
TRAJ: 500 yds. zero	-1.5"	47.3"	50.3"	0.0	-59.8"	-599.8"
TRAJ: 600 yds. zero	-1.5"	67.2"	80.2"	49.9"	0.0	-500.1"
TRAJ: 1000 yds. zero	-1.5"	167.2"	230.2"	299.9"	300.0"	0.0

270 CALIBER (.277" Dia.) 130 GRAIN SPIRE POINT
SECTIONAL DENSITY: .242 BALLISTIC COEFFICIENT: .409

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3400	2907	2680	2259	2063	1397
ENERGY (ft.-lbs.)	3336	2439	2073	1473	1228	563
TRAJ: 200 yds. zero	-1.5"	0.0	-5.1"	-30.8"	-53.3"	-244.7"
TRAJ: 300 yds. zero	-1.5"	3.4"	0.0	-22.3"	-43.1"	-227.6"
TRAJ: 500 yds. zero	-1.5"	12.3"	13.4"	0.0	-16.4"	-183.0"
TRAJ: 600 yds. zero	-1.5"	17.8"	21.5"	13.6"	0.0	-155.8"
TRAJ: 1000 yds. zero	-1.5"	48.9"	68.3"	91.5"	93.5"	0.0
VELOCITY (fps)	3300	2818	2596	2182	1990	1346
ENERGY (ft.-lbs.)	3143	2292	1944	1374	1143	523
TRAJ: 200 yds. zero	-1.5"	0.0	-5.5"	-33.0"	-57.1"	-262.7"
TRAJ: 300 yds. zero	-1.5"	3.7"	0.0	-23.8"	-46.1"	-244.3"
TRAJ: 500 yds. zero	-1.5"	13.2"	14.3"	0.0	-17.5"	-196.7"
TRAJ: 600 yds. zero	-1.5"	19.0"	23.0"	14.6"	0.0	-167.5"
TRAJ: 1000 yds. zero	-1.5"	52.5"	73.3"	98.4"	100.5"	0.0
VELOCITY (fps)	3200	2728	2510	2105	1917	1296
ENERGY (ft.-lbs.)	2955	2148	1819	1279	1061	485
TRAJ: 200 yds. zero	-1.5"	0.0	-5.9"	-35.4"	-61.2"	-282.7"
TRAJ: 300 yds. zero	-1.5"	3.9"	0.0	-25.5"	-49.4"	-263.0"
TRAJ: 500 yds. zero	-1.5"	14.1"	15.3"	0.0	-18.8"	-212.0"
TRAJ: 600 yds. zero	-1.5"	20.4"	24.7"	15.7"	0.0	-180.7"
TRAJ: 1000 yds. zero	-1.5"	56.5"	78.9"	106.0"	108.4"	0.0
VELOCITY (fps)	3100	2639	2425	2027	1844	1249
ENERGY (ft.-lbs.)	2774	2009	1697	1186	981	450
TRAJ: 200 yds. zero	-1.5"	0.0	-6.4"	-38.0"	-65.9"	-305.1"
TRAJ: 300 yds. zero	-1.5"	4.3"	0.0	-27.4"	-53.1"	-283.8"
TRAJ: 500 yds. zero	-1.5"	15.2"	16.4"	0.0	-20.2"	-229.0"
TRAJ: 600 yds. zero	-1.5"	22.0"	26.6"	16.9"	0.0	-195.3"
TRAJ: 1000 yds. zero	-1.5"	61.0"	85.2"	114.5"	117.2"	0.0
VELOCITY (fps)	3000	2549	2339	1950	1771	1204
ENERGY (ft.-lbs.)	2597	1875	1579	1097	905	418
TRAJ: 200 yds. zero	-1.5"	0.0	-6.9"	-41.0"	-71.0"	-330.0"
TRAJ: 300 yds. zero	-1.5"	4.6"	0.0	-29.5"	-57.3"	-307.1"
TRAJ: 500 yds. zero	-1.5"	16.4"	17.7"	0.0	-21.8"	-248.0"
TRAJ: 600 yds. zero	-1.5"	23.7"	28.6"	18.2"	0.0	-211.6"
TRAJ: 1000 yds. zero	-1.5"	66.0"	92.1"	124.0"	127.0"	0.0
VELOCITY (fps)	2900	2458	2253	1872	1699	1163
ENERGY (ft.-lbs.)	2427	1744	1465	1012	833	390
TRAJ: 200 yds. zero	-1.5"	0.0	-7.5"	-44.3"	-76.8"	-357.8"
TRAJ: 300 yds. zero	-1.5"	5.0"	0.0	-31.9"	-61.9"	-333.0"
TRAJ: 500 yds. zero	-1.5"	17.7"	19.1"	0.0	-23.6"	-269.2"
TRAJ: 600 yds. zero	-1.5"	25.6"	31.0"	19.7"	0.0	-229.8"
TRAJ: 1000 yds. zero	-1.5"	71.6"	99.9"	134.6"	137.9"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2800	2368	2167	1795	1627	1125
ENERGY (ft.-lbs.)	2263	1618	1355	930	764	365
TRAJ: 200 yds. zero	-1.5"	0.0	-8.1"	-48.0"	-83.3"	-388.7"
TRAJ: 300 yds. zero	-1.5"	5.4"	0.0	-34.6"	-67.1"	-361.8"
TRAJ: 500 yds. zero	-1.5"	19.2"	20.7"	0.0	-25.7"	-292.7"
TRAJ: 600 yds. zero	-1.5"	27.8"	33.6"	21.4"	0.0	-249.9"
TRAJ: 1000 yds. zero	-1.5"	77.7"	108.5"	146.3"	149.9"	0.0

270 CALIBER (.277" Dia.) 140 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .261 BALLISTIC COEFFICIENT: .486

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3300	2891	2700	2341	2172	1573
ENERGY (ft.-lbs.)	3385	2597	2265	1703	1467	769
TRAJ: 200 yds. zero	-1.5"	0.0	-5.2"	-30.7"	-52.6"	-227.4"
TRAJ: 300 yds. zero	-1.5"	3.5"	0.0	-22.0"	-42.1"	-210.0"
TRAJ: 500 yds. zero	-1.5"	12.3"	13.2"	0.0	-15.7"	-166.0"
TRAJ: 600 yds. zero	-1.5"	17.5"	21.1"	13.1"	0.0	-139.8"
TRAJ: 1000 yds. zero	-1.5"	45.5"	63.0"	83.0"	83.9"	0.0
VELOCITY (fps)	3200	2800	2613	2261	2095	1512
ENERGY (ft.-lbs.)	3183	2436	2122	1589	1364	711
TRAJ: 200 yds. zero	-1.5"	0.0	-5.6"	-32.9"	-56.4"	-244.3"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-23.6"	-45.1"	-225.6"
TRAJ: 500 yds. zero	-1.5"	13.2"	14.1"	0.0	-16.8"	-178.4"
TRAJ: 600 yds. zero	-1.5"	18.8"	22.6"	14.0"	0.0	-150.4"
TRAJ: 1000 yds. zero	-1.5"	48.9"	67.7"	89.2"	90.2"	0.0
VELOCITY (fps)	3100	2709	2525	2180	2018	1453
ENERGY (ft.-lbs.)	2987	2280	1982	1477	1266	656
TRAJ: 200 yds. zero	-1.5"	0.0	-6.1"	-35.4"	-60.5"	-263.2"
TRAJ: 300 yds. zero	-1.5"	4.0"	0.0	-25.3"	-48.4"	-243.0"
TRAJ: 500 yds. zero	-1.5"	14.2"	15.2"	0.0	-18.1"	-192.4"
TRAJ: 600 yds. zero	-1.5"	20.2"	24.2"	15.1"	0.0	-162.3"
TRAJ: 1000 yds. zero	-1.5"	52.6"	72.9"	96.2"	97.4"	0.0
VELOCITY (fps)	3000	2617	2437	2099	1941	1394
ENERGY (ft.-lbs.)	2797	2129	1846	1370	1171	604
TRAJ: 200 yds. zero	-1.5"	0.0	-6.5"	-38.1"	-65.2"	-284.2"
TRAJ: 300 yds. zero	-1.5"	4.4"	0.0	-27.2"	-52.1"	-262.4"
TRAJ: 500 yds. zero	-1.5"	15.3"	16.3"	0.0	-19.5"	-208.0"
TRAJ: 600 yds. zero	-1.5"	21.7"	26.1"	16.2"	0.0	-175.5"
TRAJ: 1000 yds. zero	-1.5"	56.8"	78.7"	104.0"	105.3"	0.0
VELOCITY (fps)	2900	2525	2349	2018	1863	1338
ENERGY (ft.-lbs.)	2614	1982	1715	1266	1079	557
TRAJ: 200 yds. zero	-1.5"	0.0	-7.1"	-41.2"	-70.4"	-307.8"
TRAJ: 300 yds. zero	-1.5"	4.7"	0.0	-29.4"	-56.3"	-284.2"
TRAJ: 500 yds. zero	-1.5"	16.5"	17.6"	0.0	-21.0"	-225.4"
TRAJ: 600 yds. zero	-1.5"	23.5"	28.1"	17.5"	0.0	-190.4"
TRAJ: 1000 yds. zero	-1.5"	61.6"	85.3"	112.7"	114.2"	0.0
VELOCITY (fps)	2800	2433	2261	1937	1787	1284
ENERGY (ft.-lbs.)	2437	1840	1589	1166	992	513
TRAJ: 200 yds. zero	-1.5"	0.0	-7.7"	-44.6"	-76.3"	-334.2"
TRAJ: 300 yds. zero	-1.5"	5.1"	0.0	-31.8"	-60.9"	-308.6"
TRAJ: 500 yds. zero	-1.5"	17.8"	19.1"	0.0	-22.8"	-245.1"
TRAJ: 600 yds. zero	-1.5"	25.4"	30.5"	19.0"	0.0	-207.1"
TRAJ: 1000 yds. zero	-1.5"	66.8"	92.6"	122.5"	124.3"	0.0
VELOCITY (fps)	2700	2341	2172	1856	1710	1233
ENERGY (ft.-lbs.)	2266	1704	1467	1071	909	473
TRAJ: 200 yds. zero	-1.5"	0.0	-8.3"	-48.4"	-82.9"	-363.9"
TRAJ: 300 yds. zero	-1.5"	5.6"	0.0	-34.5"	-66.2"	-336.1"
TRAJ: 500 yds. zero	-1.5"	19.4"	20.7"	0.0	-24.8"	-267.1"
TRAJ: 600 yds. zero	-1.5"	27.6"	33.1"	20.6"	0.0	-225.8"
TRAJ: 1000 yds. zero	-1.5"	72.8"	100.8"	133.5"	135.5"	0.0
VELOCITY (fps)	2600	2249	2084	1776	1635	1186
ENERGY (ft.-lbs.)	2101	1572	1350	981	831	437
TRAJ: 200 yds. zero	-1.5"	0.0	-9.1"	-52.7"	-90.3"	-397.2"
TRAJ: 300 yds. zero	-1.5"	6.1"	0.0	-37.6"	-72.1"	-366.9"
TRAJ: 500 yds. zero	-1.5"	21.1"	22.5"	0.0	-27.0"	-291.8"
TRAJ: 600 yds. zero	-1.5"	30.1"	36.0"	22.5"	0.0	-246.7"
TRAJ: 1000 yds. zero	-1.5"	79.4"	110.1"	145.9"	148.0"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2500	2157	1996	1697	1561	1143
ENERGY (ft.-lbs.)	1943	1446	1238	895	757	406
TRAJ: 200 yds. zero	-1.5"	0.0	-10.0"	-57.6"	-98.7"	-434.6"
TRAJ: 300 yds. zero	-1.5"	6.6"	0.0	-41.0"	-78.8"	-401.4"
TRAJ: 500 yds. zero	-1.5"	23.0"	24.6"	0.0	-29.6"	-319.4"
TRAJ: 600 yds. zero	-1.5"	32.9"	39.4"	24.6"	0.0	-270.1"
TRAJ: 1000 yds. zero	-1.5"	86.9"	120.4"	159.7"	162.1"	0.0

270 CALIBER (.277" Dia.) 150 GRAIN SPIRE POINT
SECTIONAL DENSITY: .279 BALLISTIC COEFFICIENT: .462

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3200	2780	2584	2217	2045	1448
ENERGY (ft.-lbs.)	3410	2574	2224	1637	1393	698
TRAJ: 200 yds. zero	-1.5"	0.0	-5.7"	-33.6"	-57.6"	-254.1"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-24.1"	-46.2"	-235.1"
TRAJ: 500 yds. zero	-1.5"	13.4"	14.5"	0.0	-17.3"	-186.9"
TRAJ: 600 yds. zero	-1.5"	19.2"	23.1"	14.4"	0.0	-158.1"
TRAJ: 1000 yds. zero	-1.5"	50.8"	70.5"	93.5"	94.8"	0.0
VELOCITY (fps)	3100	2689	2497	2137	1969	1392
ENERGY (ft.-lbs.)	3200	2408	2077	1521	1291	645
TRAJ: 200 yds. zero	-1.5"	0.0	-6.1"	-36.1"	-61.9"	-273.9"
TRAJ: 300 yds. zero	-1.5"	4.1"	0.0	-25.9"	-49.7"	-253.4"
TRAJ: 500 yds. zero	-1.5"	14.4"	15.5"	0.0	-18.6"	-201.7"
TRAJ: 600 yds. zero	-1.5"	20.6"	24.8"	15.5"	0.0	-170.6"
TRAJ: 1000 yds. zero	-1.5"	54.8"	76.0"	100.8"	102.4"	0.0
VELOCITY (fps)	3000	2598	2410	2057	1893	1337
ENERGY (ft.-lbs.)	2997	2248	1934	1409	1193	595
TRAJ: 200 yds. zero	-1.5"	0.0	-6.6"	-38.9"	-66.7"	-295.9"
TRAJ: 300 yds. zero	-1.5"	4.4"	0.0	-27.8"	-53.5"	-273.8"
TRAJ: 500 yds. zero	-1.5"	15.6"	16.7"	0.0	-20.1"	-218.2"
TRAJ: 600 yds. zero	-1.5"	22.2"	26.7"	16.7"	0.0	-184.7"
TRAJ: 1000 yds. zero	-1.5"	59.2"	82.1"	109.1"	110.8"	0.0
VELOCITY (fps)	2900	2507	2322	1977	1817	1284
ENERGY (ft.-lbs.)	2801	2092	1796	1302	1099	549
TRAJ: 200 yds. zero	-1.5"	0.0	-7.2"	-42.0"	-72.1"	-320.6"
TRAJ: 300 yds. zero	-1.5"	4.8"	0.0	-30.0"	-57.8"	-296.7"
TRAJ: 500 yds. zero	-1.5"	16.8"	18.0"	0.0	-21.7"	-236.6"
TRAJ: 600 yds. zero	-1.5"	24.0"	28.9"	18.1"	0.0	-200.5"
TRAJ: 1000 yds. zero	-1.5"	64.1"	89.0"	118.3"	120.3"	0.0
VELOCITY (fps)	2800	2415	2235	1897	1741	1234
ENERGY (ft.-lbs.)	2611	1942	1663	1199	1010	507
TRAJ: 200 yds. zero	-1.5"	0.0	-7.8"	-45.5"	-78.1"	-348.3"
TRAJ: 300 yds. zero	-1.5"	5.2"	0.0	-32.5"	-62.6"	-322.4"
TRAJ: 500 yds. zero	-1.5"	18.2"	19.5"	0.0	-23.5"	-257.3"
TRAJ: 600 yds. zero	-1.5"	26.0"	31.3"	19.6"	0.0	-218.1"
TRAJ: 1000 yds. zero	-1.5"	69.7"	96.7"	128.7"	130.9"	0.0
VELOCITY (fps)	2700	2323	2147	1818	1667	1188
ENERGY (ft.-lbs.)	2428	1798	1535	1100	925	470
TRAJ: 200 yds. zero	-1.5"	0.0	-8.5"	-49.4"	-84.9"	-379.3"
TRAJ: 300 yds. zero	-1.5"	5.6"	0.0	-35.3"	-68.0"	-351.1"
TRAJ: 500 yds. zero	-1.5"	19.8"	21.2"	0.0	-25.6"	-280.4"
TRAJ: 600 yds. zero	-1.5"	28.3"	34.0"	21.3"	0.0	-237.8"
TRAJ: 1000 yds. zero	-1.5"	75.9"	105.3"	140.2"	142.7"	0.0
VELOCITY (fps)	2600	2232	2059	1739	1593	1146
ENERGY (ft.-lbs.)	2251	1658	1412	1007	845	437
TRAJ: 200 yds. zero	-1.5"	0.0	-9.2"	-53.8"	-92.6"	-414.0"
TRAJ: 300 yds. zero	-1.5"	6.2"	0.0	-38.5"	-74.1"	-383.2"
TRAJ: 500 yds. zero	-1.5"	21.5"	23.1"	0.0	-27.9"	-306.3"
TRAJ: 600 yds. zero	-1.5"	30.9"	37.0"	23.3"	0.0	-259.8"
TRAJ: 1000 yds. zero	-1.5"	82.8"	115.0"	153.2"	155.9"	0.0
VELOCITY (fps)	2500	2140	1971	1661	1521	1107
ENERGY (ft.-lbs.)	2081	1525	1294	918	770	408
TRAJ: 200 yds. zero	-1.5"	0.0	-10.1"	-58.9"	-101.2"	-452.8"
TRAJ: 300 yds. zero	-1.5"	6.7"	0.0	-42.0"	-81.0"	-419.1"
TRAJ: 500 yds. zero	-1.5"	23.5"	25.2"	0.0	-30.6"	-335.1"
TRAJ: 600 yds. zero	-1.5"	33.7"	40.5"	25.5"	0.0	-284.1"
TRAJ: 1000 yds. zero	-1.5"	90.6"	125.7"	167.5"	170.5"	0.0

7MM CALIBER (.284" Dia.) 139 GRAIN SPIRE POINT
SECTIONAL DENSITY: .246 BALLISTIC COEFFICIENT: .392

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3400	2887	2652	2216	2014	1340
ENERGY (ft.-lbs.)	3567	2572	2170	1515	1252	554
TRAJ: 200 yds. zero	-1.5"	0.0	-5.2"	-31.4"	-54.5"	-254.8"
TRAJ: 300 yds. zero	-1.5"	3.5"	0.0	-22.7"	-44.1"	-237.4"
TRAJ: 500 yds. zero	-1.5"	12.6"	13.6"	0.0	-16.9"	-192.0"
TRAJ: 600 yds. zero	-1.5"	18.2"	22.1"	14.1"	0.0	-163.9"
TRAJ: 1000 yds. zero	-1.5"	51.0"	71.2"	96.0"	98.3"	0.0
VELOCITY (fps)	3300	2798	2567	2140	1942	1292
ENERGY (ft.-lbs.)	3361	2416	2034	1413	1164	515
TRAJ: 200 yds. zero	-1.5"	0.0	-5.6"	-33.6"	-58.4"	-273.7"
TRAJ: 300 yds. zero	-1.5"	3.7"	0.0	-24.3"	-47.2"	-255.1"
TRAJ: 500 yds. zero	-1.5"	13.4"	14.6"	0.0	-18.1"	-206.5"
TRAJ: 600 yds. zero	-1.5"	19.5"	23.6"	15.1"	0.0	-176.4"
TRAJ: 1000 yds. zero	-1.5"	54.7"	76.5"	103.2"	105.8"	0.0
VELOCITY (fps)	3200	2709	2483	2063	1870	1246
ENERGY (ft.-lbs.)	3160	2265	1902	1314	1079	479
TRAJ: 200 yds. zero	-1.5"	0.0	-6.0"	-36.1"	-62.7"	-294.7"
TRAJ: 300 yds. zero	-1.5"	4.0"	0.0	-26.1"	-50.7"	-274.7"
TRAJ: 500 yds. zero	-1.5"	14.4"	15.6"	0.0	-19.4"	-222.6"
TRAJ: 600 yds. zero	-1.5"	20.9"	25.3"	16.2"	0.0	-190.3"
TRAJ: 1000 yds. zero	-1.5"	58.9"	82.4"	111.3"	114.2"	0.0
VELOCITY (fps)	3100	2620	2398	1987	1798	1202
ENERGY (ft.-lbs.)	2966	2118	1774	1218	998	446
TRAJ: 200 yds. zero	-1.5"	0.0	-6.5"	-38.8"	-67.4"	-318.1"
TRAJ: 300 yds. zero	-1.5"	4.3"	0.0	-28.0"	-54.5"	-296.6"
TRAJ: 500 yds. zero	-1.5"	15.5"	16.8"	0.0	-20.9"	-240.5"
TRAJ: 600 yds. zero	-1.5"	22.5"	27.3"	17.4"	0.0	-205.7"
TRAJ: 1000 yds. zero	-1.5"	63.6"	89.0"	120.3"	123.4"	0.0
VELOCITY (fps)	3000	2530	2312	1910	1726	1162
ENERGY (ft.-lbs.)	2777	1975	1650	1126	920	417
TRAJ: 200 yds. zero	-1.5"	0.0	-7.0"	-41.8"	-72.8"	-344.1"
TRAJ: 300 yds. zero	-1.5"	4.7"	0.0	-30.2"	-58.8"	-320.9"
TRAJ: 500 yds. zero	-1.5"	16.7"	18.1"	0.0	-22.6"	-260.5"
TRAJ: 600 yds. zero	-1.5"	24.3"	29.4"	18.8"	0.0	-222.9"
TRAJ: 1000 yds. zero	-1.5"	68.8"	96.3"	130.2"	133.7"	0.0
VELOCITY (fps)	2900	2440	2227	1834	1655	1125
ENERGY (ft.-lbs.)	2595	1837	1530	1038	846	390
TRAJ: 200 yds. zero	-1.5"	0.0	-7.6"	-45.2"	-78.7"	-373.1"
TRAJ: 300 yds. zero	-1.5"	5.0"	0.0	-32.6"	-63.6"	-347.9"
TRAJ: 500 yds. zero	-1.5"	18.1"	19.6"	0.0	-24.4"	-282.7"
TRAJ: 600 yds. zero	-1.5"	26.2"	31.8"	20.4"	0.0	-241.9"
TRAJ: 1000 yds. zero	-1.5"	74.6"	104.4"	141.3"	145.2"	0.0
VELOCITY (fps)	2800	2350	2141	1758	1585	1091
ENERGY (ft.-lbs.)	2419	1704	1415	953	776	367
TRAJ: 200 yds. zero	-1.5"	0.0	-8.2"	-49.0"	-85.4"	-405.2"
TRAJ: 300 yds. zero	-1.5"	5.5"	0.0	-35.4"	-69.0"	-377.9"
TRAJ: 500 yds. zero	-1.5"	19.6"	21.2"	0.0	-26.5"	-307.1"
TRAJ: 600 yds. zero	-1.5"	28.5"	34.5"	22.1"	0.0	-262.9"
TRAJ: 1000 yds. zero	-1.5"	81.0"	113.4"	153.6"	157.7"	0.0
VELOCITY (fps)	2700	2259	2055	1682	1517	1061
ENERGY (ft.-lbs.)	2250	1575	1304	873	710	347
TRAJ: 200 yds. zero	-1.5"	0.0	-8.9"	-53.3"	-92.9"	-440.6"
TRAJ: 300 yds. zero	-1.5"	5.9"	0.0	-38.5"	-75.1"	-410.9"
TRAJ: 500 yds. zero	-1.5"	21.3"	23.1"	0.0	-28.9"	-334.0"
TRAJ: 600 yds. zero	-1.5"	31.0"	37.5"	24.1"	0.0	-285.8"
TRAJ: 1000 yds. zero	-1.5"	88.1"	123.3"	167.0"	171.5"	0.0
VELOCITY (fps)	2600	2169	1970	1608	1450	1033
ENERGY (ft.-lbs.)	2086	1452	1197	798	648	329
TRAJ: 200 yds. zero	-1.5"	0.0	-9.7"	-58.2"	-101.4"	-479.7"
TRAJ: 300 yds. zero	-1.5"	6.5"	0.0	-42.0"	-81.9"	-447.2"
TRAJ: 500 yds. zero	-1.5"	23.3"	25.2"	0.0	-31.6"	-363.3"
TRAJ: 600 yds. zero	-1.5"	33.8"	41.0"	26.3"	0.0	-310.6"
TRAJ: 1000 yds. zero	-1.5"	95.9"	134.2"	181.7"	186.4"	0.0

7MM CALIBER (.284" Dia.) 139 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .246 BALLISTIC COEFFICIENT: .453

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3400	2952	2745	2358	2176	1538
ENERGY (ft.-lbs.)	3567	2690	2325	1715	1461	730
TRAJ: 200 yds. zero	-1.5"	0.0	-5.0"	-29.5"	-50.7"	-224.0"
TRAJ: 300 yds. zero	-1.5"	3.3"	0.0	-21.2"	-40.8"	-207.4"
TRAJ: 500 yds. zero	-1.5"	11.8"	12.7"	0.0	-15.3"	-164.9"
TRAJ: 600 yds. zero	-1.5"	16.9"	20.4"	12.8"	0.0	-139.4"
TRAJ: 1000 yds.zero	-1.5"	44.8"	62.2"	82.5"	83.7"	0.0
VELOCITY (fps)	3300	2862	2659	2279	2101	1480
ENERGY (ft.-lbs.)	3361	2528	2182	1602	1362	676
TRAJ: 200 yds. zero	-1.5"	0.0	-5.3"	-31.6"	-54.3"	-240.2"
TRAJ: 300 yds. zero	-1.5"	3.6"	0.0	-22.7"	-43.6"	-222.4"
TRAJ: 500 yds. zero	-1.5"	12.6"	13.6"	0.0	-16.4"	-177.0"
TRAJ: 600 yds. zero	-1.5"	18.1"	21.8"	13.6"	0.0	-149.8"
TRAJ: 1000 yds.zero	-1.5"	48.0"	66.7"	88.5"	89.9"	0.0
VELOCITY (fps)	3200	2772	2573	2200	2025	1423
ENERGY (ft.-lbs.)	3160	2371	2043	1493	1266	625
TRAJ: 200 yds. zero	-1.5"	0.0	-5.7"	-33.9"	-58.2"	-258.2"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-24.3"	-46.7"	-239.1"
TRAJ: 500 yds. zero	-1.5"	13.5"	14.6"	0.0	-17.5"	-190.5"
TRAJ: 600 yds. zero	-1.5"	19.4"	23.4"	14.6"	0.0	-161.3"
TRAJ: 1000 yds.zero	-1.5"	51.6"	71.7"	95.3"	96.8"	0.0
VELOCITY (fps)	3100	2681	2486	2120	1949	1368
ENERGY (ft.-lbs.)	2966	2219	1907	1387	1173	577
TRAJ: 200 yds. zero	-1.5"	0.0	-6.2"	-36.4"	-62.5"	-278.4"
TRAJ: 300 yds. zero	-1.5"	4.1"	0.0	-26.1"	-50.2"	-257.8"
TRAJ: 500 yds. zero	-1.5"	14.6"	15.7"	0.0	-18.9"	-205.6"
TRAJ: 600 yds. zero	-1.5"	20.8"	25.1"	15.7"	0.0	-174.2"
TRAJ: 1000 yds.zero	-1.5"	55.7"	77.3"	102.8"	104.5"	0.0
VELOCITY (fps)	3000	2590	2399	2041	1874	1315
ENERGY (ft.-lbs.)	2777	2071	1776	1285	1083	533
TRAJ: 200 yds. zero	-1.5"	0.0	-6.7"	-39.2"	-67.4"	-300.9"
TRAJ: 300 yds. zero	-1.5"	4.4"	0.0	-28.1"	-54.0"	-278.6"
TRAJ: 500 yds. zero	-1.5"	15.7"	16.8"	0.0	-20.3"	-222.4"
TRAJ: 600 yds. zero	-1.5"	22.5"	27.0"	16.9"	0.0	-188.6"
TRAJ: 1000 yds.zero	-1.5"	60.2"	83.6"	111.2"	113.1"	0.0
VELOCITY (fps)	2900	2499	2312	1961	1798	1264
ENERGY (ft.-lbs.)	2595	1927	1649	1187	998	493
TRAJ: 200 yds. zero	-1.5"	0.0	-7.2"	-42.3"	-72.8"	-326.0"
TRAJ: 300 yds. zero	-1.5"	4.8"	0.0	-30.3"	-58.4"	-301.9"
TRAJ: 500 yds. zero	-1.5"	16.9"	18.2"	0.0	-22.0"	-241.3"
TRAJ: 600 yds. zero	-1.5"	24.3"	29.2"	18.3"	0.0	-204.7"
TRAJ: 1000 yds.zero	-1.5"	65.2"	90.6"	120.7"	122.8"	0.0
VELOCITY (fps)	2800	2408	2224	1881	1723	1216
ENERGY (ft.-lbs.)	2419	1789	1527	1092	917	456
TRAJ: 200 yds. zero	-1.5"	0.0	-7.8"	-45.9"	-78.9"	-354.2"
TRAJ: 300 yds. zero	-1.5"	5.2"	0.0	-32.8"	-63.2"	-328.1"
TRAJ: 500 yds. zero	-1.5"	18.3"	19.7"	0.0	-23.8"	-262.4"
TRAJ: 600 yds. zero	-1.5"	26.3"	31.6"	19.9"	0.0	-222.7"
TRAJ: 1000 yds.zero	-1.5"	70.8"	98.4"	131.2"	133.6"	0.0
VELOCITY (fps)	2700	2316	2137	1802	1649	1171
ENERGY (ft.-lbs.)	2250	1656	1409	1002	839	423
TRAJ: 200 yds. zero	-1.5"	0.0	-8.5"	-49.8"	-85.7"	-385.7"
TRAJ: 300 yds. zero	-1.5"	5.7"	0.0	-35.6"	-68.7"	-357.3"
TRAJ: 500 yds. zero	-1.5"	19.9"	21.4"	0.0	-25.9"	-286.0"
TRAJ: 600 yds. zero	-1.5"	28.6"	34.4"	21.6"	0.0	-242.8"
TRAJ: 1000 yds.zero	-1.5"	77.1"	107.2"	143.0"	145.7"	0.0
VELOCITY (fps)	2600	2225	2049	1724	1576	1130
ENERGY (ft.-lbs.)	2086	1527	1295	917	767	394
TRAJ: 200 yds. zero	-1.5"	0.0	-9.3"	-54.3"	-93.5"	-421.0"
TRAJ: 300 yds. zero	-1.5"	6.2"	0.0	-38.8"	-74.9"	-390.0"
TRAJ: 500 yds. zero	-1.5"	21.7"	23.3"	0.0	-28.3"	-312.4"
TRAJ: 600 yds. zero	-1.5"	31.2"	37.5"	23.6"	0.0	-265.2"
TRAJ: 1000 yds.zero	-1.5"	84.2"	117.0"	156.2"	159.1"	0.0

7MM CALIBER (.284" Dia.) 154 GRAIN SPIRE POINT
SECTIONAL DENSITY: .273 BALLISTIC COEFFICIENT: .433

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3200	2753	2546	2159	1978	1366
ENERGY (ft.-lbs.)	3501	2592	2216	1593	1338	638
TRAJ: 200 yds. zero	-1.5"	0.0	-5.8"	-34.5"	-59.5"	-268.4"
TRAJ: 300 yds. zero	-1.5"	3.9"	0.0	-24.8"	-47.8"	-249.0"
TRAJ: 500 yds. zero	-1.5"	13.8"	14.9"	0.0	-18.1"	-199.4"
TRAJ: 600 yds. zero	-1.5"	19.8"	23.9"	15.1"	0.0	-169.3"
TRAJ: 1000 yds.zero	-1.5"	53.7"	74.7"	99.7"	101.6"	0.0
VELOCITY (fps)	3100	2663	2460	2080	1904	1314
ENERGY (ft.-lbs.)	3286	2424	2069	1479	1239	591
TRAJ: 200 yds. zero	-1.5"	0.0	-6.3"	-37.1"	-63.9"	-289.4"
TRAJ: 300 yds. zero	-1.5"	4.2"	0.0	-26.6"	-51.4"	-268.6"
TRAJ: 500 yds. zero	-1.5"	14.8"	16.0"	0.0	-19.4"	-215.3"
TRAJ: 600 yds. zero	-1.5"	21.3"	25.7"	16.2"	0.0	-182.9"
TRAJ: 1000 yds.zero	-1.5"	57.9"	80.6"	107.6"	109.7"	0.0
VELOCITY (fps)	3000	2572	2373	2001	1829	1265
ENERGY (ft.-lbs.)	3077	2262	1926	1369	1144	547
TRAJ: 200 yds. zero	-1.5"	0.0	-6.8"	-40.0"	-68.9"	-312.9"
TRAJ: 300 yds. zero	-1.5"	4.5"	0.0	-28.7"	-55.4"	-290.4"
TRAJ: 500 yds. zero	-1.5"	16.0"	17.2"	0.0	-21.0"	-233.0"
TRAJ: 600 yds. zero	-1.5"	23.0"	27.7"	17.5"	0.0	-198.1"
TRAJ: 1000 yds.zero	-1.5"	62.6"	87.1"	116.5"	118.8"	0.0
VELOCITY (fps)	2900	2482	2286	1923	1755	1217
ENERGY (ft.-lbs.)	2875	2105	1787	1264	1053	507
TRAJ: 200 yds. zero	-1.5"	0.0	-7.3"	-43.2"	-74.5"	-339.2"
TRAJ: 300 yds. zero	-1.5"	4.9"	0.0	-31.0"	-59.9"	-314.8"
TRAJ: 500 yds. zero	-1.5"	17.3"	18.6"	0.0	-22.7"	-252.9"
TRAJ: 600 yds. zero	-1.5"	24.8"	29.9"	18.9"	0.0	-215.1"
TRAJ: 1000 yds.zero	-1.5"	67.8"	94.4"	126.4"	129.0"	0.0
VELOCITY (fps)	2800	2390	2199	1844	1681	1174
ENERGY (ft.-lbs.)	2680	1954	1654	1163	967	471
TRAJ: 200 yds. zero	-1.5"	0.0	-7.9"	-46.8"	-80.7"	-368.6"
TRAJ: 300 yds. zero	-1.5"	5.3"	0.0	-33.6"	-64.9"	-342.1"
TRAJ: 500 yds. zero	-1.5"	18.7"	20.1"	0.0	-24.6"	-275.0"
TRAJ: 600 yds. zero	-1.5"	26.9"	32.4"	20.5"	0.0	-234.0"
TRAJ: 1000 yds.zero	-1.5"	73.7"	102.6"	137.5"	140.4"	0.0
VELOCITY (fps)	2700	2299	2112	1766	1609	1134
ENERGY (ft.-lbs.)	2492	1807	1525	1066	885	439
TRAJ: 200 yds. zero	-1.5"	0.0	-8.6"	-50.8"	-87.8"	-401.4"
TRAJ: 300 yds. zero	-1.5"	5.8"	0.0	-36.5"	-70.5"	-372.6"
TRAJ: 500 yds. zero	-1.5"	20.3"	21.9"	0.0	-26.8"	-299.7"
TRAJ: 600 yds. zero	-1.5"	29.3"	35.3"	22.3"	0.0	-255.1"
TRAJ: 1000 yds.zero	-1.5"	80.3"	111.8"	149.9"	153.0"	0.0
VELOCITY (fps)	2600	2208	2025	1689	1538	1097
ENERGY (ft.-lbs.)	2311	1667	1402	975	808	412
TRAJ: 200 yds. zero	-1.5"	0.0	-9.4"	-55.4"	-95.7"	-437.9"
TRAJ: 300 yds. zero	-1.5"	6.3"	0.0	-39.7"	-76.9"	-406.5"
TRAJ: 500 yds. zero	-1.5"	22.2"	23.8"	0.0	-29.2"	-327.0"
TRAJ: 600 yds. zero	-1.5"	31.9"	38.5"	24.4"	0.0	-278.3"
TRAJ: 1000 yds.zero	-1.5"	87.6"	121.9"	163.5"	167.0"	0.0
VELOCITY (fps)	2500	2117	1938	1613	1468	1065
ENERGY (ft.-lbs.)	2137	1532	1285	889	737	388
TRAJ: 200 yds. zero	-1.5"	0.0	-10.3"	-60.6"	-104.8"	-478.4"
TRAJ: 300 yds. zero	-1.5"	6.9"	0.0	-43.4"	-84.1"	-444.0"
TRAJ: 500 yds. zero	-1.5"	24.2"	26.1"	0.0	-32.0"	-357.2"
TRAJ: 600 yds. zero	-1.5"	34.9"	42.1"	26.7"	0.0	-303.8"
TRAJ: 1000 yds.zero	-1.5"	95.7"	133.2"	178.6"	182.3"	0.0
VELOCITY (fps)	2400	2026	1852	1538	1401	1036
ENERGY (ft.-lbs.)	1969	1403	1173	809	671	367
TRAJ: 200 yds. zero	-1.5"	0.0	-11.3"	-66.5"	-115.0"	-523.0"
TRAJ: 300 yds. zero	-1.5"	7.5"	0.0	-47.6"	-92.4"	-485.3"
TRAJ: 500 yds. zero	-1.5"	26.6"	28.6"	0.0	-35.2"	-390.0"
TRAJ: 600 yds. zero	-1.5"	38.3"	46.2"	29.3"	0.0	-331.4"
TRAJ: 1000 yds.zero	-1.5"	104.6"	145.6"	195.0"	198.8"	0.0

BALLISTICS TABLES: LONG RANGE RIFLE

**Hornady
HANDBOOK**

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2300	1935	1767	1465	1336	1009
ENERGY (ft.-lbs.)	1809	1280	1067	734	610	348
TRAJ: 200 yds. zero	-1.5"	0.0	-12.5"	-73.2"	-126.6"	-572.0"
TRAJ: 300 yds. zero	-1.5"	8.3"	0.0	-52.4"	-101.7"	-530.4"
TRAJ: 500 yds. zero	-1.5"	29.3"	31.5"	0.0	-38.7"	-425.6"
TRAJ: 600 yds. zero	-1.5"	42.2"	50.8"	32.3"	0.0	-361.0"
TRAJ: 1000 yds. zero	-1.5"	114.4"	159.1"	212.8"	216.6"	0.0

7MM CALIBER (.284" Dia.) 162 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .534

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3100	2742	2574	2255	2104	1566
ENERGY (ft.-lbs.)	3456	2705	2383	1829	1593	882
TRAJ: 200 yds. zero	-1.5"	0.0	-5.9"	-34.2"	-58.2"	-246.0"
TRAJ: 300 yds. zero	-1.5"	3.9"	0.0	-24.4"	-46.4"	-226.3"
TRAJ: 500 yds. zero	-1.5"	13.7"	14.6"	0.0	-17.1"	-177.6"
TRAJ: 600 yds. zero	-1.5"	19.4"	23.2"	14.3"	0.0	-149.0"
TRAJ: 1000 yds. zero	-1.5"	49.2"	67.9"	88.8"	89.4"	0.0
VELOCITY (fps)	3000	2650	2485	2173	2025	1503
ENERGY (ft.-lbs.)	3237	2526	2221	1698	1475	812
TRAJ: 200 yds. zero	-1.5"	0.0	-6.4"	-36.9"	-62.7"	-265.4"
TRAJ: 300 yds. zero	-1.5"	4.3"	0.0	-26.2"	-49.9"	-244.1"
TRAJ: 500 yds. zero	-1.5"	14.7"	15.7"	0.0	-18.4"	-191.7"
TRAJ: 600 yds. zero	-1.5"	20.9"	25.0"	15.4"	0.0	-161.0"
TRAJ: 1000 yds. zero	-1.5"	53.1"	73.2"	95.9"	96.6"	0.0
VELOCITY (fps)	2900	2558	2396	2090	1946	1441
ENERGY (ft.-lbs.)	3025	2353	2065	1571	1362	746
TRAJ: 200 yds. zero	-1.5"	0.0	-6.9"	-39.8"	-67.6"	-287.2"
TRAJ: 300 yds. zero	-1.5"	4.6"	0.0	-28.3"	-53.8"	-264.2"
TRAJ: 500 yds. zero	-1.5"	15.9"	17.0"	0.0	-19.9"	-207.6"
TRAJ: 600 yds. zero	-1.5"	22.5"	26.9"	16.6"	0.0	-174.4"
TRAJ: 1000 yds. zero	-1.5"	57.4"	79.2"	103.8"	104.7"	0.0
VELOCITY (fps)	2800	2465	2307	2007	1867	1380
ENERGY (ft.-lbs.)	2820	2185	1914	1449	1253	685
TRAJ: 200 yds. zero	-1.5"	0.0	-7.5"	-43.1"	-73.2"	-311.6"
TRAJ: 300 yds. zero	-1.5"	5.0"	0.0	-30.6"	-58.2"	-286.6"
TRAJ: 500 yds. zero	-1.5"	17.2"	18.3"	0.0	-21.6"	-225.5"
TRAJ: 600 yds. zero	-1.5"	24.4"	29.1"	18.0"	0.0	-189.6"
TRAJ: 1000 yds. zero	-1.5"	62.3"	86.0"	112.7"	113.7"	0.0
VELOCITY (fps)	2700	2372	2217	1925	1788	1322
ENERGY (ft.-lbs.)	2622	2024	1768	1332	1150	629
TRAJ: 200 yds. zero	-1.5"	0.0	-8.1"	-46.7"	-79.5"	-339.0"
TRAJ: 300 yds. zero	-1.5"	5.4"	0.0	-33.2"	-63.2"	-311.9"
TRAJ: 500 yds. zero	-1.5"	18.7"	19.9"	0.0	-23.4"	-245.6"
TRAJ: 600 yds. zero	-1.5"	26.5"	31.6"	19.5"	0.0	-206.6"
TRAJ: 1000 yds. zero	-1.5"	67.8"	93.6"	122.8"	123.9"	0.0
VELOCITY (fps)	2600	2279	2128	1843	1710	1267
ENERGY (ft.-lbs.)	2431	1869	1628	1221	1052	578
TRAJ: 200 yds. zero	-1.5"	0.0	-8.9"	-50.9"	-86.5"	-370.0"
TRAJ: 300 yds. zero	-1.5"	5.9"	0.0	-36.1"	-68.8"	-340.4"
TRAJ: 500 yds. zero	-1.5"	20.3"	21.6"	0.0	-25.5"	-268.2"
TRAJ: 600 yds. zero	-1.5"	28.8"	34.4"	21.3"	0.0	-225.7"
TRAJ: 1000 yds. zero	-1.5"	74.0"	102.1"	134.1"	135.4"	0.0
VELOCITY (fps)	2500	2187	2038	1761	1633	1216
ENERGY (ft.-lbs.)	2248	1719	1494	1115	959	532
TRAJ: 200 yds. zero	-1.5"	0.0	-9.7"	-55.6"	-94.6"	-404.8"
TRAJ: 300 yds. zero	-1.5"	6.5"	0.0	-39.4"	-75.1"	-372.5"
TRAJ: 500 yds. zero	-1.5"	22.2"	23.6"	0.0	-27.9"	-293.7"
TRAJ: 600 yds. zero	-1.5"	31.5"	37.6"	23.2"	0.0	-247.2"
TRAJ: 1000 yds. zero	-1.5"	81.0"	111.7"	146.9"	148.3"	0.0
VELOCITY (fps)	2400	2094	1949	1681	1557	1168
ENERGY (ft.-lbs.)	2072	1577	1367	1016	872	491
TRAJ: 200 yds. zero	-1.5"	0.0	-10.6"	-60.9"	-103.6"	-444.0"
TRAJ: 300 yds. zero	-1.5"	7.1"	0.0	-43.1"	-82.3"	-408.5"
TRAJ: 500 yds. zero	-1.5"	24.3"	25.9"	0.0	-30.6"	-322.3"
TRAJ: 600 yds. zero	-1.5"	34.5"	41.2"	25.5"	0.0	-271.3"
TRAJ: 1000 yds. zero	-1.5"	88.8"	122.6"	161.1"	162.8"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2300	2001	1861	1601	1484	1125
ENERGY (ft.-lbs.)	1903	1440	1245	922	792	456
TRAJ: 200 yds. zero	-1.5"	0.0	-11.7"	-66.9"	-114.0"	-488.1"
TRAJ: 300 yds. zero	-1.5"	7.8"	0.0	-47.4"	-90.5"	-449.1"
TRAJ: 500 yds. zero	-1.5"	26.8"	28.4"	0.0	-33.7"	-354.3"
TRAJ: 600 yds. zero	-1.5"	38.0"	45.3"	28.1"	0.0	-298.2"
TRAJ: 1000 yds. zero	-1.5"	97.6"	134.7"	177.1"	178.9"	0.0

7MM CALIBER (.284" Dia.) 162 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .514

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3100	2729	2555	2225	2070	1520
ENERGY (ft.-lbs.)	3456	2678	2347	1781	1541	831
TRAJ: 200 yds. zero	-1.5"	0.0	-6.0"	-34.7"	-59.1"	-252.6"
TRAJ: 300 yds. zero	-1.5"	4.0"	0.0	-24.7"	-47.2"	-232.7"
TRAJ: 500 yds. zero	-1.5"	13.9"	14.8"	0.0	-17.5"	-183.2"
TRAJ: 600 yds. zero	-1.5"	19.7"	23.6"	14.6"	0.0	-154.0"
TRAJ: 1000 yds. zero	-1.5"	50.5"	69.8"	91.6"	92.4"	0.0
VELOCITY (fps)	3000	2637	2466	2144	1992	1459
ENERGY (ft.-lbs.)	3237	2501	2188	1653	1427	765
TRAJ: 200 yds. zero	-1.5"	0.0	-6.4"	-37.3"	-63.7"	-272.6"
TRAJ: 300 yds. zero	-1.5"	4.3"	0.0	-26.6"	-50.8"	-251.1"
TRAJ: 500 yds. zero	-1.5"	14.9"	16.0"	0.0	-18.8"	-197.9"
TRAJ: 600 yds. zero	-1.5"	21.2"	25.4"	15.7"	0.0	-166.5"
TRAJ: 1000 yds. zero	-1.5"	54.5"	75.3"	99.0"	99.9"	0.0
VELOCITY (fps)	2900	2545	2378	2061	1913	1399
ENERGY (ft.-lbs.)	3025	2329	2033	1528	1316	704
TRAJ: 200 yds. zero	-1.5"	0.0	-7.0"	-40.3"	-68.7"	-295.1"
TRAJ: 300 yds. zero	-1.5"	4.6"	0.0	-28.7"	-54.8"	-271.8"
TRAJ: 500 yds. zero	-1.5"	16.1"	17.2"	0.0	-20.3"	-214.5"
TRAJ: 600 yds. zero	-1.5"	22.9"	27.4"	17.0"	0.0	-180.5"
TRAJ: 1000 yds. zero	-1.5"	59.0"	81.6"	107.2"	108.3"	0.0
VELOCITY (fps)	2800	2453	2289	1979	1835	1341
ENERGY (ft.-lbs.)	2820	2163	1884	1409	1211	647
TRAJ: 200 yds. zero	-1.5"	0.0	-7.6"	-43.6"	-74.4"	-320.2"
TRAJ: 300 yds. zero	-1.5"	5.0"	0.0	-31.0"	-59.3"	-295.0"
TRAJ: 500 yds. zero	-1.5"	17.5"	18.6"	0.0	-22.0"	-233.0"
TRAJ: 600 yds. zero	-1.5"	24.8"	29.6"	18.4"	0.0	-196.2"
TRAJ: 1000 yds. zero	-1.5"	64.0"	88.5"	116.5"	117.7"	0.0
VELOCITY (fps)	2700	2360	2200	1898	1757	1286
ENERGY (ft.-lbs.)	2622	2003	1740	1295	1110	595
TRAJ: 200 yds. zero	-1.5"	0.0	-8.2"	-47.4"	-80.8"	-348.6"
TRAJ: 300 yds. zero	-1.5"	5.5"	0.0	-33.7"	-64.3"	-321.2"
TRAJ: 500 yds. zero	-1.5"	19.0"	20.2"	0.0	-23.9"	-253.8"
TRAJ: 600 yds. zero	-1.5"	26.9"	32.2"	19.9"	0.0	-213.9"
TRAJ: 1000 yds. zero	-1.5"	69.7"	96.3"	126.9"	128.4"	0.0
VELOCITY (fps)	2600	2267	2111	1816	1680	1234
ENERGY (ft.-lbs.)	2431	1849	1602	1186	1015	547
TRAJ: 200 yds. zero	-1.5"	0.0	-9.0"	-51.6"	-88.0"	-380.4"
TRAJ: 300 yds. zero	-1.5"	6.0"	0.0	-36.6"	-70.1"	-350.6"
TRAJ: 500 yds. zero	-1.5"	20.6"	22.0"	0.0	-26.1"	-277.3"
TRAJ: 600 yds. zero	-1.5"	29.3"	35.0"	21.7"	0.0	-233.8"
TRAJ: 1000 yds. zero	-1.5"	76.1"	105.2"	138.6"	140.3"	0.0
VELOCITY (fps)	2500	2175	2022	1736	1604	1185
ENERGY (ft.-lbs.)	2248	1701	1470	1083	926	505
TRAJ: 200 yds. zero	-1.5"	0.0	-9.8"	-56.4"	-96.2"	-416.3"
TRAJ: 300 yds. zero	-1.5"	6.5"	0.0	-40.0"	-76.5"	-383.6"
TRAJ: 500 yds. zero	-1.5"	22.5"	24.0"	0.0	-28.5"	-303.6"
TRAJ: 600 yds. zero	-1.5"	32.1"	38.3"	23.8"	0.0	-256.0"
TRAJ: 1000 yds. zero	-1.5"	83.3"	115.1"	151.8"	153.6"	0.0
VELOCITY (fps)	2400	2082	1933	1656	1530	1141
ENERGY (ft.-lbs.)	2072	1559	1344	986	842	469
TRAJ: 200 yds. zero	-1.5"	0.0	-10.8"	-61.8"	-105.4"	-456.5"
TRAJ: 300 yds. zero	-1.5"	7.2"	0.0	-43.8"	-83.9"	-420.7"
TRAJ: 500 yds. zero	-1.5"	24.7"	26.3"	0.0	-31.3"	-333.0"
TRAJ: 600 yds. zero	-1.5"	35.1"	42.0"	26.1"	0.0	-280.9"
TRAJ: 1000 yds. zero	-1.5"	91.3"	126.2"	166.5"	168.5"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2300	1990	1845	1578	1458	1102
ENERGY (ft.-lbs.)	1903	1424	1224	895	764	437
TRAJ: 200 yds. zero	-1.5"	0.0	-11.8"	-67.9"	-116.0"	-501.7"
TRAJ: 300 yds. zero	-1.5"	7.9"	0.0	-48.2"	-92.3"	-462.2"
TRAJ: 500 yds. zero	-1.5"	27.2"	28.9"	0.0	-34.5"	-365.8"
TRAJ: 600 yds. zero	-1.5"	38.7"	46.1"	28.7"	0.0	-308.4"
TRAJ: 1000 yds. zero	-1.5"	100.3"	138.7"	182.9"	185.0"	0.0

7MM CALIBER (.284" Dia.) 175 GRAIN SPIRE POINT
SECTIONAL DENSITY: .310 BALLISTIC COEFFICIENT: .462

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3000	2598	2410	2057	1893	1337
ENERGY (ft.-lbs.)	3497	2622	2257	1644	1392	694
TRAJ: 200 yds. zero	-1.5"	0.0	-6.6"	-38.9"	-66.7"	-295.9"
TRAJ: 300 yds. zero	-1.5"	4.4"	0.0	-27.8"	-53.5"	-273.8"
TRAJ: 500 yds. zero	-1.5"	15.6"	16.7"	0.0	-20.1"	-218.2"
TRAJ: 600 yds. zero	-1.5"	22.2"	26.7"	16.7"	0.0	-184.7"
TRAJ: 1000 yds. zero	-1.5"	59.2"	82.1"	109.1"	110.8"	0.0
VELOCITY (fps)	2900	2507	2322	1977	1817	1284
ENERGY (ft.-lbs.)	3267	2441	2096	1519	1282	641
TRAJ: 200 yds. zero	-1.5"	0.0	-7.2"	-42.0"	-72.1"	-320.6"
TRAJ: 300 yds. zero	-1.5"	4.8"	0.0	-30.0"	-57.8"	-296.7"
TRAJ: 500 yds. zero	-1.5"	16.8"	18.0"	0.0	-21.7"	-236.6"
TRAJ: 600 yds. zero	-1.5"	24.0"	28.9"	18.1"	0.0	-200.5"
TRAJ: 1000 yds. zero	-1.5"	64.1"	89.0"	118.3"	120.3"	0.0
VELOCITY (fps)	2800	2415	2235	1897	1741	1234
ENERGY (ft.-lbs.)	3046	2266	1940	1398	1178	592
TRAJ: 200 yds. zero	-1.5"	0.0	-7.8"	-45.5"	-78.1"	-348.3"
TRAJ: 300 yds. zero	-1.5"	5.2"	0.0	-32.5"	-62.6"	-322.4"
TRAJ: 500 yds. zero	-1.5"	18.2"	19.5"	0.0	-23.5"	-257.3"
TRAJ: 600 yds. zero	-1.5"	26.0"	31.3"	19.6"	0.0	-218.1"
TRAJ: 1000 yds. zero	-1.5"	69.7"	96.7"	128.7"	130.9"	0.0
VELOCITY (fps)	2700	2323	2147	1818	1667	1188
ENERGY (ft.-lbs.)	2832	2097	1791	1284	1079	548
TRAJ: 200 yds. zero	-1.5"	0.0	-8.5"	-49.4"	-84.9"	-379.3"
TRAJ: 300 yds. zero	-1.5"	5.6"	0.0	-35.3"	-68.0"	-351.1"
TRAJ: 500 yds. zero	-1.5"	19.8"	21.2"	0.0	-25.6"	-280.4"
TRAJ: 600 yds. zero	-1.5"	28.3"	34.0"	21.3"	0.0	-237.8"
TRAJ: 1000 yds. zero	-1.5"	75.9"	105.3"	140.2"	142.7"	0.0
VELOCITY (fps)	2600	2232	2059	1739	1593	1146
ENERGY (ft.-lbs.)	2626	1935	1647	1175	986	510
TRAJ: 200 yds. zero	-1.5"	0.0	-9.2"	-53.8"	-92.6"	-414.0"
TRAJ: 300 yds. zero	-1.5"	6.2"	0.0	-38.5"	-74.1"	-383.2"
TRAJ: 500 yds. zero	-1.5"	21.5"	23.1"	0.0	-27.9"	-306.3"
TRAJ: 600 yds. zero	-1.5"	30.9"	37.0"	23.3"	0.0	-259.8"
TRAJ: 1000 yds. zero	-1.5"	82.8"	115.0"	153.2"	155.9"	0.0
VELOCITY (fps)	2500	2140	1971	1661	1521	1107
ENERGY (ft.-lbs.)	2428	1779	1510	1071	899	476
TRAJ: 200 yds. zero	-1.5"	0.0	-10.1"	-58.9"	-101.2"	-452.8"
TRAJ: 300 yds. zero	-1.5"	6.7"	0.0	-42.0"	-81.0"	-419.1"
TRAJ: 500 yds. zero	-1.5"	23.5"	25.2"	0.0	-30.6"	-335.1"
TRAJ: 600 yds. zero	-1.5"	33.7"	40.5"	25.5"	0.0	-284.1"
TRAJ: 1000 yds. zero	-1.5"	90.6"	125.7"	167.5"	170.5"	0.0
VELOCITY (fps)	2400	2048	1884	1584	1450	1073
ENERGY (ft.-lbs.)	2238	1630	1379	975	817	447
TRAJ: 200 yds. zero	-1.5"	0.0	-11.1"	-64.6"	-111.0"	-495.9"
TRAJ: 300 yds. zero	-1.5"	7.4"	0.0	-46.1"	-88.9"	-459.0"
TRAJ: 500 yds. zero	-1.5"	25.8"	27.6"	0.0	-33.6"	-366.8"
TRAJ: 600 yds. zero	-1.5"	37.0"	44.4"	28.0"	0.0	-310.9"
TRAJ: 1000 yds. zero	-1.5"	99.2"	137.7"	183.4"	186.5"	0.0
VELOCITY (fps)	2300	1957	1797	1509	1383	1042
ENERGY (ft.-lbs.)	2055	1487	1255	885	743	422
TRAJ: 200 yds. zero	-1.5"	0.0	-12.2"	-71.0"	-122.2"	-543.6"
TRAJ: 300 yds. zero	-1.5"	8.1"	0.0	-50.7"	-97.8"	-502.9"
TRAJ: 500 yds. zero	-1.5"	28.4"	30.4"	0.0	-37.0"	-401.5"
TRAJ: 600 yds. zero	-1.5"	40.7"	48.9"	30.8"	0.0	-339.9"
TRAJ: 1000 yds. zero	-1.5"	108.7"	150.9"	200.8"	203.9"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2200	1866	1712	1436	1318	1014
ENERGY (ft.-lbs.)	1880	1352	1138	801	675	399
TRAJ: 200 yds. zero	-1.5"	0.0	-13.5"	-78.4"	-134.9"	-596.1"
TRAJ: 300 yds. zero	-1.5"	9.0"	0.0	-56.0"	-108.0"	-551.1"
TRAJ: 500 yds. zero	-1.5"	31.4"	33.6"	0.0	-40.8"	-439.2"
TRAJ: 600 yds. zero	-1.5"	45.0"	54.0"	34.0"	0.0	-371.2"
TRAJ: 1000 yds. zero	-1.5"	119.2"	165.3"	219.6"	222.7"	0.0

30 CALIBER (.308" Dia.) 165 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .248 BALLISTIC COEFFICIENT: .435

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3300	2845	2635	2241	2058	1427
ENERGY (ft.-lbs.)	3989	2965	2543	1840	1551	745
TRAJ: 200 yds. zero	-1.5"	0.0	-5.4"	-32.1"	-55.3"	-248.5"
TRAJ: 300 yds. zero	-1.5"	3.6"	0.0	-23.1"	-44.5"	-230.5"
TRAJ: 500 yds. zero	-1.5"	12.8"	13.9"	0.0	-16.8"	-184.3"
TRAJ: 600 yds. zero	-1.5"	18.4"	22.3"	14.0"	0.0	-156.3"
TRAJ: 1000 yds. zero	-1.5"	49.7"	69.1"	92.1"	93.8"	0.0
VELOCITY (fps)	3200	2755	2549	2163	1983	1372
ENERGY (ft.-lbs.)	3751	2781	2380	1714	1441	690
TRAJ: 200 yds. zero	-1.5"	0.0	-5.8"	-34.4"	-59.3"	-267.3"
TRAJ: 300 yds. zero	-1.5"	3.9"	0.0	-24.8"	-47.7"	-247.9"
TRAJ: 500 yds. zero	-1.5"	13.8"	14.9"	0.0	-18.0"	-198.4"
TRAJ: 600 yds. zero	-1.5"	19.8"	23.9"	15.0"	0.0	-168.4"
TRAJ: 1000 yds. zero	-1.5"	53.5"	74.4"	99.2"	101.0"	0.0
VELOCITY (fps)	3100	2665	2462	2084	1908	1320
ENERGY (ft.-lbs.)	3520	2601	2221	1591	1334	638
TRAJ: 200 yds. zero	-1.5"	0.0	-6.3"	-37.0"	-63.8"	-288.3"
TRAJ: 300 yds. zero	-1.5"	4.2"	0.0	-26.6"	-51.3"	-267.4"
TRAJ: 500 yds. zero	-1.5"	14.8"	15.9"	0.0	-19.4"	-214.2"
TRAJ: 600 yds. zero	-1.5"	21.3"	25.6"	16.1"	0.0	-181.9"
TRAJ: 1000 yds. zero	-1.5"	57.7"	80.2"	107.1"	109.2"	0.0
VELOCITY (fps)	3000	2574	2376	2005	1834	1270
ENERGY (ft.-lbs.)	3297	2428	2068	1473	1232	590
TRAJ: 200 yds. zero	-1.5"	0.0	-6.8"	-39.9"	-68.8"	-311.6"
TRAJ: 300 yds. zero	-1.5"	4.5"	0.0	-28.6"	-55.2"	-289.1"
TRAJ: 500 yds. zero	-1.5"	16.0"	17.2"	0.0	-20.9"	-231.9"
TRAJ: 600 yds. zero	-1.5"	22.9"	27.6"	17.4"	0.0	-197.1"
TRAJ: 1000 yds. zero	-1.5"	62.3"	86.7"	115.9"	118.2"	0.0
VELOCITY (fps)	2900	2483	2289	1926	1759	1222
ENERGY (ft.-lbs.)	3081	2259	1919	1359	1134	547
TRAJ: 200 yds. zero	-1.5"	0.0	-7.3"	-43.1"	-74.3"	-337.8"
TRAJ: 300 yds. zero	-1.5"	4.9"	0.0	-30.9"	-59.7"	-313.5"
TRAJ: 500 yds. zero	-1.5"	17.2"	18.5"	0.0	-22.6"	-251.6"
TRAJ: 600 yds. zero	-1.5"	24.8"	29.8"	18.8"	0.0	-214.0"
TRAJ: 1000 yds. zero	-1.5"	67.6"	94.0"	125.8"	128.4"	0.0
VELOCITY (fps)	2800	2392	2202	1848	1686	1178
ENERGY (ft.-lbs.)	2872	2096	1776	1251	1041	508
TRAJ: 200 yds. zero	-1.5"	0.0	-7.9"	-46.7"	-80.6"	-367.0"
TRAJ: 300 yds. zero	-1.5"	5.3"	0.0	-33.5"	-64.7"	-340.6"
TRAJ: 500 yds. zero	-1.5"	18.7"	20.1"	0.0	-24.5"	-273.7"
TRAJ: 600 yds. zero	-1.5"	26.9"	32.3"	20.4"	0.0	-232.8"
TRAJ: 1000 yds. zero	-1.5"	73.4"	102.2"	136.8"	139.7"	0.0
VELOCITY (fps)	2700	2301	2115	1770	1613	1137
ENERGY (ft.-lbs.)	2670	1940	1638	1147	953	474
TRAJ: 200 yds. zero	-1.5"	0.0	-8.6"	-50.7"	-87.6"	-399.7"
TRAJ: 300 yds. zero	-1.5"	5.7"	0.0	-36.4"	-70.3"	-371.0"
TRAJ: 500 yds. zero	-1.5"	20.3"	21.8"	0.0	-26.7"	-298.2"
TRAJ: 600 yds. zero	-1.5"	29.2"	35.2"	22.2"	0.0	-253.8"
TRAJ: 1000 yds. zero	-1.5"	79.9"	111.3"	149.1"	152.3"	0.0
VELOCITY (fps)	2600	2210	2028	1692	1542	1101
ENERGY (ft.-lbs.)	2476	1789	1506	1049	870	444
TRAJ: 200 yds. zero	-1.5"	0.0	-9.4"	-55.3"	-95.5"	-436.1"
TRAJ: 300 yds. zero	-1.5"	6.3"	0.0	-39.6"	-76.7"	-404.7"
TRAJ: 500 yds. zero	-1.5"	22.1"	23.8"	0.0	-29.1"	-325.5"
TRAJ: 600 yds. zero	-1.5"	31.8"	38.3"	24.3"	0.0	-276.9"
TRAJ: 1000 yds. zero	-1.5"	87.2"	121.4"	162.7"	166.1"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2500	2118	1941	1616	1472	1068
ENERGY (ft.-lbs.)	2289	1644	1380	957	793	418
TRAJ: 200 yds. zero	-1.5"	0.0	-10.3"	-60.5"	-104.5"	-476.5"
TRAJ: 300 yds. zero	-1.5"	6.9"	0.0	-43.3"	-83.9"	-442.2"
TRAJ: 500 yds. zero	-1.5"	24.2"	26.0"	0.0	-31.9"	-355.5"
TRAJ: 600 yds. zero	-1.5"	34.8"	42.0"	26.6"	0.0	-302.3"
TRAJ: 1000 yds. zero	-1.5"	95.3"	132.6"	177.8"	181.4"	0.0
VELOCITY (fps)	2400	2027	1855	1541	1404	1038
ENERGY (ft.-lbs.)	2110	1505	1260	870	722	395
TRAJ: 200 yds. zero	-1.5"	0.0	-11.3"	-66.3"	-114.7"	-521.0"
TRAJ: 300 yds. zero	-1.5"	7.5"	0.0	-47.5"	-92.1"	-483.3"
TRAJ: 500 yds. zero	-1.5"	26.5"	28.5"	0.0	-35.1"	-388.3"
TRAJ: 600 yds. zero	-1.5"	38.2"	46.0"	29.2"	0.0	-329.8"
TRAJ: 1000 yds. zero	-1.5"	104.2"	145.0"	194.1"	197.9"	0.0
VELOCITY (fps)	2300	1936	1769	1468	1339	1011
ENERGY (ft.-lbs.)	1938	1374	1146	790	657	374
TRAJ: 200 yds. zero	-1.5"	0.0	-12.4"	-73.0"	-126.2"	-569.9"
TRAJ: 300 yds. zero	-1.5"	8.3"	0.0	-52.3"	-101.4"	-528.4"
TRAJ: 500 yds. zero	-1.5"	29.2"	31.4"	0.0	-38.6"	-423.8"
TRAJ: 600 yds. zero	-1.5"	42.1"	50.7"	32.2"	0.0	-359.5"
TRAJ: 1000 yds. zero	-1.5"	114.0"	158.5"	211.9"	215.7"	0.0
VELOCITY (fps)	2200	1846	1684	1398	1278	986
ENERGY (ft.-lbs.)	1773	1248	1039	716	598	356
TRAJ: 200 yds. zero	-1.5"	0.0	-13.8"	-80.7"	-139.4"	-623.4"
TRAJ: 300 yds. zero	-1.5"	9.2"	0.0	-57.8"	-111.9"	-577.5"
TRAJ: 500 yds. zero	-1.5"	32.3"	34.7"	0.0	-42.6"	-462.0"
TRAJ: 600 yds. zero	-1.5"	46.5"	56.0"	35.5"	0.0	-391.0"
TRAJ: 1000 yds. zero	-1.5"	124.7"	173.3"	231.0"	234.6"	0.0

30 CALIBER (.308" Dia.) 168 GRAIN BOAT TAIL HOLLOW POINT NATIONAL MATCH
SECTIONAL DENSITY: .253 BALLISTIC COEFFICIENT: .450

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3300	2860	2655	2273	2094	1471
ENERGY (ft.-lbs.)	4062	3050	2629	1926	1635	807
TRAJ: 200 yds. zero	-1.5"	0.0	-5.3"	-31.7"	-54.4"	-241.5"
TRAJ: 300 yds. zero	-1.5"	3.6"	0.0	-22.7"	-43.7"	-223.7"
TRAJ: 500 yds. zero	-1.5"	12.7"	13.6"	0.0	-16.4"	-178.2"
TRAJ: 600 yds. zero	-1.5"	18.1"	21.9"	13.7"	0.0	-150.8"
TRAJ: 1000 yds. zero	-1.5"	48.3"	67.1"	89.1"	90.5"	0.0
VELOCITY (fps)	3200	2769	2569	2194	2018	1415
ENERGY (ft.-lbs.)	3819	2860	2461	1795	1519	747
TRAJ: 200 yds. zero	-1.5"	0.0	-5.7"	-33.9"	-58.4"	-259.7"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-24.4"	-46.9"	-240.5"
TRAJ: 500 yds. zero	-1.5"	13.6"	14.6"	0.0	-17.6"	-191.8"
TRAJ: 600 yds. zero	-1.5"	19.5"	23.4"	14.7"	0.0	-162.4"
TRAJ: 1000 yds. zero	-1.5"	51.9"	72.2"	95.9"	97.4"	0.0
VELOCITY (fps)	3100	2679	2482	2114	1943	1360
ENERGY (ft.-lbs.)	3584	2676	2298	1667	1408	690
TRAJ: 200 yds. zero	-1.5"	0.0	-6.2"	-36.5"	-62.7"	-279.9"
TRAJ: 300 yds. zero	-1.5"	4.1"	0.0	-26.2"	-50.3"	-259.3"
TRAJ: 500 yds. zero	-1.5"	14.6"	15.7"	0.0	-18.9"	-206.9"
TRAJ: 600 yds. zero	-1.5"	20.9"	25.2"	15.8"	0.0	-175.4"
TRAJ: 1000 yds. zero	-1.5"	56.0"	77.8"	103.5"	105.2"	0.0
VELOCITY (fps)	3000	2588	2395	2035	1867	1307
ENERGY (ft.-lbs.)	3357	2498	2140	1544	1300	637
TRAJ: 200 yds. zero	-1.5"	0.0	-6.7"	-39.3"	-67.6"	-302.6"
TRAJ: 300 yds. zero	-1.5"	4.5"	0.0	-28.2"	-54.2"	-280.3"
TRAJ: 500 yds. zero	-1.5"	15.7"	16.9"	0.0	-20.4"	-223.9"
TRAJ: 600 yds. zero	-1.5"	22.5"	27.1"	17.0"	0.0	-189.9"
TRAJ: 1000 yds. zero	-1.5"	60.5"	84.1"	112.0"	113.9"	0.0
VELOCITY (fps)	2900	2497	2308	1955	1792	1257
ENERGY (ft.-lbs.)	3137	2325	1987	1426	1198	589
TRAJ: 200 yds. zero	-1.5"	0.0	-7.2"	-42.5"	-73.0"	-327.9"
TRAJ: 300 yds. zero	-1.5"	4.8"	0.0	-30.4"	-58.6"	-303.8"
TRAJ: 500 yds. zero	-1.5"	17.0"	18.2"	0.0	-22.1"	-242.9"
TRAJ: 600 yds. zero	-1.5"	24.3"	29.3"	18.4"	0.0	-206.1"
TRAJ: 1000 yds. zero	-1.5"	65.6"	91.1"	121.5"	123.7"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2800	2405	2221	1876	1717	1209
ENERGY (ft.-lbs.)	2924	2158	1839	1313	1100	545
TRAJ: 200 yds. zero	-1.5"	0.0	-7.8"	-46.0"	-79.2"	-356.2"
TRAJ: 300 yds. zero	-1.5"	5.2"	0.0	-32.9"	-63.5"	-330.1"
TRAJ: 500 yds. zero	-1.5"	18.4"	19.8"	0.0	-24.0"	-264.2"
TRAJ: 600 yds. zero	-1.5"	26.4"	31.7"	20.0"	0.0	-224.3"
TRAJ: 1000 yds. zero	-1.5"	71.2"	99.0"	132.1"	134.6"	0.0
VELOCITY (fps)	2700	2314	2133	1797	1643	1165
ENERGY (ft.-lbs.)	2719	1997	1697	1204	1007	507
TRAJ: 200 yds. zero	-1.5"	0.0	-8.5"	-50.0"	-86.0"	-387.9"
TRAJ: 300 yds. zero	-1.5"	5.7"	0.0	-35.8"	-69.0"	-359.5"
TRAJ: 500 yds. zero	-1.5"	20.0"	21.5"	0.0	-26.1"	-288.0"
TRAJ: 600 yds. zero	-1.5"	28.7"	34.5"	21.7"	0.0	-244.5"
TRAJ: 1000 yds. zero	-1.5"	77.6"	107.8"	144.0"	146.7"	0.0
VELOCITY (fps)	2600	2222	2045	1719	1571	1125
ENERGY (ft.-lbs.)	2521	1842	1561	1102	920	472
TRAJ: 200 yds. zero	-1.5"	0.0	-9.3"	-54.5"	-93.8"	-423.4"
TRAJ: 300 yds. zero	-1.5"	6.2"	0.0	-39.0"	-75.2"	-392.4"
TRAJ: 500 yds. zero	-1.5"	21.8"	23.4"	0.0	-28.4"	-314.5"
TRAJ: 600 yds. zero	-1.5"	31.3"	37.6"	23.7"	0.0	-267.1"
TRAJ: 1000 yds. zero	-1.5"	84.7"	117.7"	157.2"	160.2"	0.0
VELOCITY (fps)	2500	2131	1958	1641	1499	1089
ENERGY (ft.-lbs.)	2331	1693	1430	1005	839	443
TRAJ: 200 yds. zero	-1.5"	0.0	-10.2"	-59.5"	-102.6"	-462.9"
TRAJ: 300 yds. zero	-1.5"	6.8"	0.0	-42.6"	-82.2"	-428.9"
TRAJ: 500 yds. zero	-1.5"	23.8"	25.5"	0.0	-31.1"	-343.8"
TRAJ: 600 yds. zero	-1.5"	34.2"	41.1"	26.0"	0.0	-291.9"
TRAJ: 1000 yds. zero	-1.5"	92.6"	128.7"	171.9"	175.1"	0.0
VELOCITY (fps)	2400	2039	1871	1565	1430	1057
ENERGY (ft.-lbs.)	2148	1551	1306	914	763	417
TRAJ: 200 yds. zero	-1.5"	0.0	-11.2"	-65.3"	-112.6"	-506.6"
TRAJ: 300 yds. zero	-1.5"	7.5"	0.0	-46.7"	-90.2"	-469.4"
TRAJ: 500 yds. zero	-1.5"	26.1"	28.0"	0.0	-34.2"	-376.0"
TRAJ: 600 yds. zero	-1.5"	37.5"	45.1"	28.5"	0.0	-319.0"
TRAJ: 1000 yds. zero	-1.5"	101.3"	140.8"	188.0"	191.4"	0.0
VELOCITY (fps)	2300	1948	1785	1491	1364	1028
ENERGY (ft.-lbs.)	1973	1415	1189	829	694	394
TRAJ: 200 yds. zero	-1.5"	0.0	-12.3"	-71.9"	-123.9"	-554.9"
TRAJ: 300 yds. zero	-1.5"	8.2"	0.0	-51.4"	-99.3"	-513.9"
TRAJ: 500 yds. zero	-1.5"	28.8"	30.8"	0.0	-37.7"	-411.1"
TRAJ: 600 yds. zero	-1.5"	41.3"	49.7"	31.4"	0.0	-348.3"
TRAJ: 1000 yds. zero	-1.5"	111.0"	154.2"	205.6"	209.0"	0.0
VELOCITY (fps)	2200	1857	1700	1419	1300	1002
ENERGY (ft.-lbs.)	1805	1287	1078	751	631	374
TRAJ: 200 yds. zero	-1.5"	0.0	-13.6"	-79.4"	-136.8"	-607.8"
TRAJ: 300 yds. zero	-1.5"	9.1"	0.0	-56.7"	-109.6"	-562.5"
TRAJ: 500 yds. zero	-1.5"	31.8"	34.0"	0.0	-41.6"	-449.0"
TRAJ: 600 yds. zero	-1.5"	45.6"	54.8"	34.6"	0.0	-379.7"
TRAJ: 1000 yds. zero	-1.5"	121.6"	168.7"	224.5"	227.8"	0.0

30 CALIBER (.308" Dia.) 180 GRAIN BOAT TAIL SPIRE POINT

SECTIONAL DENSITY: .271 BALLISTIC COEFFICIENT: .452

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3200	2771	2572	2198	2023	1421
ENERGY (ft.-lbs.)	4092	3069	2643	1930	1635	806
TRAJ: 200 yds. zero	-1.5"	0.0	-5.7"	-33.9"	-58.2"	-258.7"
TRAJ: 300 yds. zero	-1.5"	3.8"	0.0	-24.3"	-46.8"	-239.6"
TRAJ: 500 yds. zero	-1.5"	13.6"	14.6"	0.0	-17.6"	-190.9"
TRAJ: 600 yds. zero	-1.5"	19.4"	23.4"	14.6"	0.0	-161.6"
TRAJ: 1000 yds. zero	-1.5"	51.7"	71.9"	95.5"	97.0"	0.0
VELOCITY (fps)	3100	2680	2485	2118	1947	1365
ENERGY (ft.-lbs.)	3840	2871	2467	1793	1515	745
TRAJ: 200 yds. zero	-1.5"	0.0	-6.2"	-36.4"	-62.6"	-278.9"
TRAJ: 300 yds. zero	-1.5"	4.1"	0.0	-26.1"	-50.2"	-258.3"
TRAJ: 500 yds. zero	-1.5"	14.6"	15.7"	0.0	-18.9"	-206.0"
TRAJ: 600 yds. zero	-1.5"	20.9"	25.1"	15.7"	0.0	-174.6"
TRAJ: 1000 yds. zero	-1.5"	55.8"	77.5"	103.0"	104.7"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3000	2590	2398	2039	1872	1312
ENERGY (ft.-lbs.)	3597	2680	2298	1661	1400	688
TRAJ: 200 yds. zero	-1.5"	0.0	-6.7"	-39.2"	-67.5"	-301.4"
TRAJ: 300 yds. zero	-1.5"	4.5"	0.0	-28.1"	-54.1"	-279.2"
TRAJ: 500 yds. zero	-1.5"	15.7"	16.9"	0.0	-20.4"	-222.9"
TRAJ: 600 yds. zero	-1.5"	22.5"	27.0"	17.0"	0.0	-189.0"
TRAJ: 1000 yds. zero	-1.5"	60.3"	83.7"	111.5"	113.4"	0.0
VELOCITY (fps)	2900	2498	2310	1959	1796	1261
ENERGY (ft.-lbs.)	3361	2494	2133	1534	1289	636
TRAJ: 200 yds. zero	-1.5"	0.0	-7.2"	-42.4"	-72.9"	-326.6"
TRAJ: 300 yds. zero	-1.5"	4.8"	0.0	-30.3"	-58.4"	-302.5"
TRAJ: 500 yds. zero	-1.5"	17.0"	18.2"	0.0	-22.0"	-241.8"
TRAJ: 600 yds. zero	-1.5"	24.3"	29.2"	18.4"	0.0	-205.1"
TRAJ: 1000 yds. zero	-1.5"	65.3"	90.8"	120.9"	123.1"	0.0
VELOCITY (fps)	2800	2407	2223	1880	1721	1213
ENERGY (ft.-lbs.)	3133	2315	1975	1412	1184	588
TRAJ: 200 yds. zero	-1.5"	0.0	-7.8"	-45.9"	-79.0"	-354.9"
TRAJ: 300 yds. zero	-1.5"	5.2"	0.0	-32.9"	-63.3"	-328.7"
TRAJ: 500 yds. zero	-1.5"	18.4"	19.7"	0.0	-23.9"	-263.0"
TRAJ: 600 yds. zero	-1.5"	26.3"	31.7"	19.9"	0.0	-223.2"
TRAJ: 1000 yds. zero	-1.5"	71.0"	98.6"	131.5"	133.9"	0.0
VELOCITY (fps)	2700	2315	2135	1800	1647	1169
ENERGY (ft.-lbs.)	2913	2142	1822	1295	1084	546
TRAJ: 200 yds. zero	-1.5"	0.0	-8.5"	-49.9"	-85.8"	-386.4"
TRAJ: 300 yds. zero	-1.5"	5.7"	0.0	-35.7"	-68.8"	-358.0"
TRAJ: 500 yds. zero	-1.5"	20.0"	21.4"	0.0	-26.0"	-286.7"
TRAJ: 600 yds. zero	-1.5"	28.6"	34.4"	21.7"	0.0	-243.4"
TRAJ: 1000 yds. zero	-1.5"	77.3"	107.4"	143.3"	146.0"	0.0
VELOCITY (fps)	2600	2224	2048	1722	1574	1129
ENERGY (ft.-lbs.)	2701	1976	1676	1185	991	509
TRAJ: 200 yds. zero	-1.5"	0.0	-9.3"	-54.4"	-93.6"	-421.8"
TRAJ: 300 yds. zero	-1.5"	6.2"	0.0	-38.9"	-75.0"	-390.8"
TRAJ: 500 yds. zero	-1.5"	21.7"	23.3"	0.0	-28.4"	-313.1"
TRAJ: 600 yds. zero	-1.5"	31.2"	37.5"	23.6"	0.0	-265.8"
TRAJ: 1000 yds. zero	-1.5"	84.4"	117.2"	156.5"	159.5"	0.0
VELOCITY (fps)	2500	2132	1960	1645	1503	1092
ENERGY (ft.-lbs.)	2498	1817	1536	1081	903	477
TRAJ: 200 yds. zero	-1.5"	0.0	-10.2"	-59.4"	-102.4"	-461.1"
TRAJ: 300 yds. zero	-1.5"	6.8"	0.0	-42.5"	-82.0"	-427.2"
TRAJ: 500 yds. zero	-1.5"	23.8"	25.5"	0.0	-31.0"	-342.3"
TRAJ: 600 yds. zero	-1.5"	34.1"	41.0"	25.9"	0.0	-290.5"
TRAJ: 1000 yds. zero	-1.5"	92.2"	128.2"	171.1"	174.3"	0.0
VELOCITY (fps)	2400	2041	1874	1569	1434	1060
ENERGY (ft.-lbs.)	2302	1664	1403	983	821	449
TRAJ: 200 yds. zero	-1.5"	0.0	-11.2"	-65.2"	-112.3"	-504.8"
TRAJ: 300 yds. zero	-1.5"	7.4"	0.0	-46.6"	-90.0"	-467.6"
TRAJ: 500 yds. zero	-1.5"	26.1"	27.9"	0.0	-34.1"	-374.4"
TRAJ: 600 yds. zero	-1.5"	37.4"	45.0"	28.4"	0.0	-317.6"
TRAJ: 1000 yds. zero	-1.5"	101.0"	140.3"	187.2"	190.5"	0.0
VELOCITY (fps)	2300	1949	1787	1494	1367	1030
ENERGY (ft.-lbs.)	2114	1519	1276	892	747	424
TRAJ: 200 yds. zero	-1.5"	0.0	-12.3"	-71.7"	-123.6"	-552.9"
TRAJ: 300 yds. zero	-1.5"	8.2"	0.0	-51.3"	-99.0"	-512.0"
TRAJ: 500 yds. zero	-1.5"	28.7"	30.8"	0.0	-37.5"	-409.5"
TRAJ: 600 yds. zero	-1.5"	41.2"	49.5"	31.3"	0.0	-346.9"
TRAJ: 1000 yds. zero	-1.5"	110.6"	153.6"	204.7"	208.1"	0.0
VELOCITY (fps)	2200	1859	1702	1422	1303	1004
ENERGY (ft.-lbs.)	1934	1381	1157	808	679	403
TRAJ: 200 yds. zero	-1.5"	0.0	-13.6"	-79.2"	-136.5"	-605.8"
TRAJ: 300 yds. zero	-1.5"	9.1"	0.0	-56.6"	-109.4"	-560.5"
TRAJ: 500 yds. zero	-1.5"	31.7"	34.0"	0.0	-41.4"	-447.4"
TRAJ: 600 yds. zero	-1.5"	45.5"	54.7"	34.5"	0.0	-378.3"
TRAJ: 1000 yds. zero	-1.5"	121.2"	168.2"	223.7"	227.0"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2100	1769	1618	1353	1243	979
ENERGY (ft.-lbs.)	1762	1250	1046	731	618	383
TRAJ: 200 yds. zero	-1.5"	0.0	-15.1"	-87.8"	-151.2"	-663.5"
TRAJ: 300 yds. zero	-1.5"	10.0"	0.0	-62.7"	-121.1"	-613.3"
TRAJ: 500 yds. zero	-1.5"	35.1"	37.6"	0.0	-45.9"	-487.9"
TRAJ: 600 yds. zero	-1.5"	50.4"	60.5"	38.2"	0.0	-411.5"
TRAJ: 1000 yds. zero	-1.5"	132.7"	184.0"	244.0"	246.9"	0.0
VELOCITY (fps)	2000	1680	1535	1287	1188	956
ENERGY (ft.-lbs.)	1598	1127	942	662	564	365
TRAJ: 200 yds. zero	-1.5"	0.0	-16.8"	-97.6"	-167.9"	-726.3"
TRAJ: 300 yds. zero	-1.5"	11.2"	0.0	-69.6"	-134.4"	-670.4"
TRAJ: 500 yds. zero	-1.5"	39.0"	41.8"	0.0	-50.8"	-531.1"
TRAJ: 600 yds. zero	-1.5"	56.0"	67.2"	42.3"	0.0	-446.4"
TRAJ: 1000 yds. zero	-1.5"	145.3"	201.1"	265.5"	267.9"	0.0
VELOCITY (fps)	1900	1592	1455	1225	1138	934
ENERGY (ft.-lbs.)	1443	1012	846	600	517	349
TRAJ: 200 yds. zero	-1.5"	0.0	-18.8"	-108.9"	-187.0"	-794.4"
TRAJ: 300 yds. zero	-1.5"	12.5"	0.0	-77.6"	-149.4"	-731.9"
TRAJ: 500 yds. zero	-1.5"	43.5"	46.6"	0.0	-56.3"	-576.7"
TRAJ: 600 yds. zero	-1.5"	62.3"	74.7"	46.9"	0.0	-482.8"
TRAJ: 1000 yds. zero	-1.5"	158.9"	219.6"	288.3"	289.7"	0.0

30 CALIBER (.308" Dia.) 190 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .286 BALLISTIC COEFFICIENT: .530

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3100	2740	2570	2249	2098	1557
ENERGY (ft.-lbs.)	4054	3166	2786	2134	1856	1023
TRAJ: 200 yds. zero	-1.5"	0.0	-5.9"	-34.3"	-58.4"	-247.3"
TRAJ: 300 yds. zero	-1.5"	4.0"	0.0	-24.4"	-46.5"	-227.5"
TRAJ: 500 yds. zero	-1.5"	13.7"	14.7"	0.0	-17.2"	-178.6"
TRAJ: 600 yds. zero	-1.5"	19.5"	23.3"	14.3"	0.0	-150.0"
TRAJ: 1000 yds. zero	-1.5"	49.5"	68.3"	89.3"	90.0"	0.0
VELOCITY (fps)	3000	2648	2481	2167	2019	1494
ENERGY (ft.-lbs.)	3796	2957	2597	1981	1719	942
TRAJ: 200 yds. zero	-1.5"	0.0	-6.4"	-37.0"	-62.9"	-266.8"
TRAJ: 300 yds. zero	-1.5"	4.3"	0.0	-26.3"	-50.1"	-245.5"
TRAJ: 500 yds. zero	-1.5"	14.8"	15.8"	0.0	-18.5"	-192.9"
TRAJ: 600 yds. zero	-1.5"	21.0"	25.0"	15.4"	0.0	-162.0"
TRAJ: 1000 yds. zero	-1.5"	53.4"	73.6"	96.5"	97.2"	0.0
VELOCITY (fps)	2900	2555	2392	2084	1939	1432
ENERGY (ft.-lbs.)	3547	2754	2414	1833	1587	866
TRAJ: 200 yds. zero	-1.5"	0.0	-6.9"	-39.9"	-67.9"	-288.7"
TRAJ: 300 yds. zero	-1.5"	4.6"	0.0	-28.3"	-54.0"	-265.6"
TRAJ: 500 yds. zero	-1.5"	16.0"	17.0"	0.0	-20.0"	-208.9"
TRAJ: 600 yds. zero	-1.5"	22.6"	27.0"	16.7"	0.0	-175.6"
TRAJ: 1000 yds. zero	-1.5"	57.7"	79.7"	104.5"	105.4"	0.0
VELOCITY (fps)	2800	2463	2303	2002	1861	1373
ENERGY (ft.-lbs.)	3307	2558	2238	1690	1460	795
TRAJ: 200 yds. zero	-1.5"	0.0	-7.5"	-43.2"	-73.4"	-313.2"
TRAJ: 300 yds. zero	-1.5"	5.0"	0.0	-30.7"	-58.4"	-288.2"
TRAJ: 500 yds. zero	-1.5"	17.3"	18.4"	0.0	-21.6"	-226.9"
TRAJ: 600 yds. zero	-1.5"	24.5"	29.2"	18.0"	0.0	-190.8"
TRAJ: 1000 yds. zero	-1.5"	62.6"	86.5"	113.5"	114.5"	0.0
VELOCITY (fps)	2700	2370	2214	1920	1782	1315
ENERGY (ft.-lbs.)	3075	2369	2067	1554	1340	730
TRAJ: 200 yds. zero	-1.5"	0.0	-8.2"	-46.9"	-79.7"	-340.9"
TRAJ: 300 yds. zero	-1.5"	5.4"	0.0	-33.3"	-63.4"	-313.7"
TRAJ: 500 yds. zero	-1.5"	18.7"	20.0"	0.0	-23.5"	-247.2"
TRAJ: 600 yds. zero	-1.5"	26.6"	31.7"	19.6"	0.0	-208.0"
TRAJ: 1000 yds. zero	-1.5"	68.2"	94.1"	123.6"	124.8"	0.0
VELOCITY (fps)	2600	2277	2124	1838	1704	1261
ENERGY (ft.-lbs.)	2851	2187	1904	1424	1225	670
TRAJ: 200 yds. zero	-1.5"	0.0	-8.9"	-51.0"	-86.8"	-371.9"
TRAJ: 300 yds. zero	-1.5"	5.9"	0.0	-36.2"	-69.0"	-342.3"
TRAJ: 500 yds. zero	-1.5"	20.4"	21.7"	0.0	-25.6"	-269.9"
TRAJ: 600 yds. zero	-1.5"	28.9"	34.5"	21.4"	0.0	-227.2"
TRAJ: 1000 yds. zero	-1.5"	74.4"	102.7"	135.0"	136.3"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2500	2184	2035	1756	1627	1210
ENERGY (ft.-lbs.)	2636	2012	1747	1301	1117	617
TRAJ: 200 yds. zero	-1.5"	0.0	-9.7"	-55.7"	-94.9"	-407.0"
TRAJ: 300 yds. zero	-1.5"	6.5"	0.0	-39.5"	-75.4"	-374.6"
TRAJ: 500 yds. zero	-1.5"	22.3"	23.7"	0.0	-28.0"	-295.6"
TRAJ: 600 yds. zero	-1.5"	31.6"	37.7"	23.3"	0.0	-248.9"
TRAJ: 1000 yds. zero	-1.5"	81.4"	112.4"	147.8"	149.3"	0.0
VELOCITY (fps)	2400	2091	1946	1676	1552	1163
ENERGY (ft.-lbs.)	2430	1845	1598	1185	1016	570
TRAJ: 200 yds. zero	-1.5"	0.0	-10.7"	-61.0"	-104.0"	-446.4"
TRAJ: 300 yds. zero	-1.5"	7.1"	0.0	-43.3"	-82.6"	-410.9"
TRAJ: 500 yds. zero	-1.5"	24.4"	26.0"	0.0	-30.7"	-324.3"
TRAJ: 600 yds. zero	-1.5"	34.7"	41.3"	25.6"	0.0	-273.1"
TRAJ: 1000 yds. zero	-1.5"	89.3"	123.3"	162.2"	163.9"	0.0
VELOCITY (fps)	2300	1999	1858	1597	1479	1121
ENERGY (ft.-lbs.)	2231	1685	1456	1075	922	530
TRAJ: 200 yds. zero	-1.5"	0.0	-11.7"	-67.1"	-114.4"	-490.7"
TRAJ: 300 yds. zero	-1.5"	7.8"	0.0	-47.6"	-90.9"	-451.6"
TRAJ: 500 yds. zero	-1.5"	26.8"	28.5"	0.0	-33.8"	-356.5"
TRAJ: 600 yds. zero	-1.5"	38.1"	45.4"	28.2"	0.0	-300.1"
TRAJ: 1000 yds. zero	-1.5"	98.1"	135.5"	178.2"	180.1"	0.0
VELOCITY (fps)	2200	1907	1770	1519	1407	1083
ENERGY (ft.-lbs.)	2042	1534	1321	974	836	495
TRAJ: 200 yds. zero	-1.5"	0.0	-13.0"	-74.1"	-126.2"	-540.3"
TRAJ: 300 yds. zero	-1.5"	8.6"	0.0	-52.5"	-100.3"	-497.1"
TRAJ: 500 yds. zero	-1.5"	29.6"	31.5"	0.0	-37.3"	-392.1"
TRAJ: 600 yds. zero	-1.5"	42.1"	50.1"	31.1"	0.0	-329.9"
TRAJ: 1000 yds. zero	-1.5"	108.1"	149.1"	196.1"	198.0"	0.0

30 CALIBER (.308" Dia.) 190 GRAIN BOAT TAIL SPIRE POINT
 SECTIONAL DENSITY: .286 BALLISTIC COEFFICIENT: .491

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3100	2712	2531	2188	2028	1465
ENERGY (ft.-lbs.)	4054	3103	2701	2020	1734	905
TRAJ: 200 yds. zero	-1.5"	0.0	-6.0"	-35.3"	-60.3"	-261.1"
TRAJ: 300 yds. zero	-1.5"	4.0"	0.0	-25.2"	-48.2"	-241.0"
TRAJ: 500 yds. zero	-1.5"	14.1"	15.1"	0.0	-18.0"	-190.6"
TRAJ: 600 yds. zero	-1.5"	20.1"	24.1"	15.0"	0.0	-160.7"
TRAJ: 1000 yds. zero	-1.5"	52.2"	72.3"	95.3"	96.4"	0.0
VELOCITY (fps)	3000	2621	2443	2107	1950	1406
ENERGY (ft.-lbs.)	3796	2897	2517	1873	1604	834
TRAJ: 200 yds. zero	-1.5"	0.0	-6.5"	-38.0"	-64.9"	-282.0"
TRAJ: 300 yds. zero	-1.5"	4.4"	0.0	-27.1"	-51.9"	-260.3"
TRAJ: 500 yds. zero	-1.5"	15.2"	16.3"	0.0	-19.3"	-206.0"
TRAJ: 600 yds. zero	-1.5"	21.6"	25.9"	16.1"	0.0	-173.8"
TRAJ: 1000 yds. zero	-1.5"	56.4"	78.1"	103.0"	104.3"	0.0
VELOCITY (fps)	2900	2529	2355	2026	1873	1349
ENERGY (ft.-lbs.)	3547	2698	2338	1732	1479	768
TRAJ: 200 yds. zero	-1.5"	0.0	-7.1"	-41.0"	-70.1"	-305.3"
TRAJ: 300 yds. zero	-1.5"	4.7"	0.0	-29.2"	-56.0"	-281.8"
TRAJ: 500 yds. zero	-1.5"	16.4"	17.5"	0.0	-20.9"	-223.3"
TRAJ: 600 yds. zero	-1.5"	23.4"	28.0"	17.4"	0.0	-188.5"
TRAJ: 1000 yds. zero	-1.5"	61.1"	84.5"	111.7"	113.1"	0.0
VELOCITY (fps)	2800	2437	2266	1945	1796	1295
ENERGY (ft.-lbs.)	3307	2505	2166	1596	1360	707
TRAJ: 200 yds. zero	-1.5"	0.0	-7.7"	-44.4"	-75.9"	-331.6"
TRAJ: 300 yds. zero	-1.5"	5.1"	0.0	-31.6"	-60.6"	-306.0"
TRAJ: 500 yds. zero	-1.5"	17.8"	19.0"	0.0	-22.6"	-242.7"
TRAJ: 600 yds. zero	-1.5"	25.3"	30.3"	18.9"	0.0	-205.0"
TRAJ: 1000 yds. zero	-1.5"	66.3"	91.8"	121.4"	123.0"	0.0
VELOCITY (fps)	2700	2345	2178	1864	1719	1243
ENERGY (ft.-lbs.)	3075	2319	2000	1466	1246	652
TRAJ: 200 yds. zero	-1.5"	0.0	-8.3"	-48.2"	-82.5"	-361.0"
TRAJ: 300 yds. zero	-1.5"	5.5"	0.0	-34.3"	-65.8"	-333.2"
TRAJ: 500 yds. zero	-1.5"	19.3"	20.6"	0.0	-24.6"	-264.5"
TRAJ: 600 yds. zero	-1.5"	27.5"	32.9"	20.5"	0.0	-223.5"
TRAJ: 1000 yds. zero	-1.5"	72.2"	100.0"	132.3"	134.1"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2600	2252	2089	1784	1643	1195
ENERGY (ft.-lbs.)	2851	2140	1841	1342	1139	602
TRAJ: 200 yds. zero	-1.5"	0.0	-9.1"	-52.5"	-89.9"	-394.0"
TRAJ: 300 yds. zero	-1.5"	6.1"	0.0	-37.4"	-71.7"	-363.8"
TRAJ: 500 yds. zero	-1.5"	21.0"	22.4"	0.0	-26.8"	-289.0"
TRAJ: 600 yds. zero	-1.5"	30.0"	35.9"	22.4"	0.0	-244.3"
TRAJ: 1000 yds. zero	-1.5"	78.8"	109.1"	144.5"	146.6"	0.0
VELOCITY (fps)	2500	2160	2001	1704	1569	1151
ENERGY (ft.-lbs.)	2636	1968	1688	1225	1038	558
TRAJ: 200 yds. zero	-1.5"	0.0	-9.9"	-57.4"	-98.2"	-431.1"
TRAJ: 300 yds. zero	-1.5"	6.6"	0.0	-40.8"	-78.4"	-398.0"
TRAJ: 500 yds. zero	-1.5"	23.0"	24.5"	0.0	-29.4"	-316.3"
TRAJ: 600 yds. zero	-1.5"	32.7"	39.2"	24.5"	0.0	-267.4"
TRAJ: 1000 yds. zero	-1.5"	86.2"	119.4"	158.2"	160.5"	0.0
VELOCITY (fps)	2400	2068	1913	1626	1496	1111
ENERGY (ft.-lbs.)	2430	1804	1543	1115	944	520
TRAJ: 200 yds. zero	-1.5"	0.0	-10.9"	-62.9"	-107.7"	-472.6"
TRAJ: 300 yds. zero	-1.5"	7.3"	0.0	-44.8"	-85.9"	-436.3"
TRAJ: 500 yds. zero	-1.5"	25.2"	26.9"	0.0	-32.2"	-346.8"
TRAJ: 600 yds. zero	-1.5"	35.9"	43.0"	26.8"	0.0	-293.1"
TRAJ: 1000 yds. zero	-1.5"	94.5"	130.9"	173.4"	175.9"	0.0
VELOCITY (fps)	2300	1976	1825	1549	1426	1075
ENERGY (ft.-lbs.)	2231	1647	1405	1012	858	488
TRAJ: 200 yds. zero	-1.5"	0.0	-12.0"	-69.2"	-118.5"	-518.9"
TRAJ: 300 yds. zero	-1.5"	8.0"	0.0	-49.2"	-94.5"	-479.0"
TRAJ: 500 yds. zero	-1.5"	27.7"	29.5"	0.0	-35.5"	-380.5"
TRAJ: 600 yds. zero	-1.5"	39.5"	47.3"	29.6"	0.0	-321.4"
TRAJ: 1000 yds. zero	-1.5"	103.8"	143.7"	190.3"	192.9"	0.0
VELOCITY (fps)	2200	1885	1738	1474	1358	1043
ENERGY (ft.-lbs.)	2042	1498	1275	916	778	459
TRAJ: 200 yds. zero	-1.5"	0.0	-13.2"	-76.4"	-130.8"	-570.2"
TRAJ: 300 yds. zero	-1.5"	8.8"	0.0	-54.3"	-104.3"	-526.1"
TRAJ: 500 yds. zero	-1.5"	30.6"	32.6"	0.0	-39.2"	-417.4"
TRAJ: 600 yds. zero	-1.5"	43.6"	52.2"	32.6"	0.0	-352.2"
TRAJ: 1000 yds. zero	-1.5"	114.0"	157.8"	208.7"	211.3"	0.0

8MM CALIBER (.323" Dia.) 220 GRAIN SPIRE POINT
SECTIONAL DENSITY: .301 BALLISTIC COEFFICIENT: .464

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2900	2508	2325	1981	1821	1289
ENERGY (ft.-lbs.)	4108	3073	2640	1916	1619	811
TRAJ: 200 yds. zero	-1.5"	0.0	-7.2"	-41.9"	-72.0"	-319.5"
TRAJ: 300 yds. zero	-1.5"	4.8"	0.0	-30.0"	-57.6"	-295.6"
TRAJ: 500 yds. zero	-1.5"	16.8"	18.0"	0.0	-21.6"	-235.6"
TRAJ: 600 yds. zero	-1.5"	24.0"	28.8"	18.0"	0.0	-199.5"
TRAJ: 1000 yds. zero	-1.5"	63.9"	88.7"	117.8"	119.7"	0.0
VELOCITY (fps)	2800	2417	2237	1901	1745	1239
ENERGY (ft.-lbs.)	3829	2853	2444	1764	1488	749
TRAJ: 200 yds. zero	-1.5"	0.0	-7.8"	-45.4"	-78.0"	-347.0"
TRAJ: 300 yds. zero	-1.5"	5.2"	0.0	-32.5"	-62.4"	-321.1"
TRAJ: 500 yds. zero	-1.5"	18.2"	19.5"	0.0	-23.5"	-256.2"
TRAJ: 600 yds. zero	-1.5"	26.0"	31.2"	19.6"	0.0	-217.1"
TRAJ: 1000 yds. zero	-1.5"	69.4"	96.3"	128.1"	130.3"	0.0
VELOCITY (fps)	2700	2325	2149	1821	1670	1192
ENERGY (ft.-lbs.)	3561	2640	2256	1620	1363	694
TRAJ: 200 yds. zero	-1.5"	0.0	-8.5"	-49.3"	-84.7"	-377.9"
TRAJ: 300 yds. zero	-1.5"	5.6"	0.0	-35.2"	-67.8"	-349.7"
TRAJ: 500 yds. zero	-1.5"	19.7"	21.1"	0.0	-25.5"	-279.3"
TRAJ: 600 yds. zero	-1.5"	28.2"	33.9"	21.3"	0.0	-236.7"
TRAJ: 1000 yds. zero	-1.5"	75.6"	104.9"	139.6"	142.0"	0.0
VELOCITY (fps)	2600	2233	2061	1742	1597	1149
ENERGY (ft.-lbs.)	3302	2436	2075	1482	1245	645
TRAJ: 200 yds. zero	-1.5"	0.0	-9.2"	-53.7"	-92.3"	-412.5"
TRAJ: 300 yds. zero	-1.5"	6.1"	0.0	-38.4"	-73.9"	-381.8"
TRAJ: 500 yds. zero	-1.5"	21.5"	23.0"	0.0	-27.9"	-305.0"
TRAJ: 600 yds. zero	-1.5"	30.8"	37.0"	23.2"	0.0	-258.6"
TRAJ: 1000 yds. zero	-1.5"	82.5"	114.5"	152.5"	155.2"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2500	2141	1973	1664	1524	1110
ENERGY (ft.-lbs.)	3053	2239	1902	1352	1135	602
TRAJ: 200 yds. zero	-1.5"	0.0	-10.1"	-58.8"	-101.0"	-451.2"
TRAJ: 300 yds. zero	-1.5"	6.7"	0.0	-41.9"	-80.8"	-417.5"
TRAJ: 500 yds. zero	-1.5"	23.5"	25.2"	0.0	-30.5"	-333.7"
TRAJ: 600 yds. zero	-1.5"	33.7"	40.4"	25.4"	0.0	-282.9"
TRAJ: 1000 yds. zero	-1.5"	90.2"	125.3"	166.8"	169.7"	0.0
VELOCITY (fps)	2400	2050	1886	1587	1454	1075
ENERGY (ft.-lbs.)	2813	2052	1738	1230	1032	565
TRAJ: 200 yds. zero	-1.5"	0.0	-11.1"	-64.4"	-110.8"	-494.2"
TRAJ: 300 yds. zero	-1.5"	7.4"	0.0	-46.0"	-88.6"	-457.3"
TRAJ: 500 yds. zero	-1.5"	25.8"	27.6"	0.0	-33.5"	-365.3"
TRAJ: 600 yds. zero	-1.5"	36.9"	44.3"	27.9"	0.0	-309.6"
TRAJ: 1000 yds. zero	-1.5"	98.8"	137.2"	182.7"	185.7"	0.0
VELOCITY (fps)	2300	1958	1799	1512	1386	1044
ENERGY (ft.-lbs.)	2584	1873	1582	1116	938	532
TRAJ: 200 yds. zero	-1.5"	0.0	-12.2"	-70.9"	-121.9"	-541.8"
TRAJ: 300 yds. zero	-1.5"	8.1"	0.0	-50.6"	-97.6"	-501.2"
TRAJ: 500 yds. zero	-1.5"	28.4"	30.3"	0.0	-36.9"	-400.0"
TRAJ: 600 yds. zero	-1.5"	40.6"	48.8"	30.7"	0.0	-338.6"
TRAJ: 1000 yds. zero	-1.5"	108.4"	150.3"	200.0"	203.1"	0.0
VELOCITY (fps)	2200	1867	1714	1439	1321	1016
ENERGY (ft.-lbs.)	2364	1703	1434	1011	852	504
TRAJ: 200 yds. zero	-1.5"	0.0	-13.5"	-78.3"	-134.6"	-594.2"
TRAJ: 300 yds. zero	-1.5"	9.0"	0.0	-55.8"	-107.7"	-549.3"
TRAJ: 500 yds. zero	-1.5"	31.3"	33.5"	0.0	-40.7"	-437.6"
TRAJ: 600 yds. zero	-1.5"	44.9"	53.8"	33.9"	0.0	-369.8"
TRAJ: 1000 yds. zero	-1.5"	118.8"	164.8"	218.8"	221.9"	0.0
VELOCITY (fps)	2100	1777	1629	1368	1259	990
ENERGY (ft.-lbs.)	2154	1542	1296	914	774	479
TRAJ: 200 yds. zero	-1.5"	0.0	-14.9"	-86.7"	-149.1"	-651.5"
TRAJ: 300 yds. zero	-1.5"	10.0"	0.0	-61.8"	-119.2"	-601.7"
TRAJ: 500 yds. zero	-1.5"	34.7"	37.1"	0.0	-45.0"	-478.0"
TRAJ: 600 yds. zero	-1.5"	49.7"	59.6"	37.5"	0.0	-403.0"
TRAJ: 1000 yds. zero	-1.5"	130.3"	180.5"	239.0"	241.8"	0.0
VELOCITY (fps)	2000	1687	1546	1301	1202	966
ENERGY (ft.-lbs.)	1954	1391	1167	827	706	456
TRAJ: 200 yds. zero	-1.5"	0.0	-16.6"	-96.4"	-165.7"	-714.1"
TRAJ: 300 yds. zero	-1.5"	11.1"	0.0	-68.7"	-132.4"	-658.6"
TRAJ: 500 yds. zero	-1.5"	38.6"	41.2"	0.0	-49.9"	-521.2"
TRAJ: 600 yds. zero	-1.5"	55.2"	66.2"	41.6"	0.0	-438.0"
TRAJ: 1000 yds. zero	-1.5"	142.8"	197.6"	260.6"	262.8"	0.0

338 CALIBER (.338" Dia.) 250 GRAIN SPIRE POINT
SECTIONAL DENSITY: .313 BALLISTIC COEFFICIENT: .431

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2900	2480	2284	1918	1750	1213
ENERGY (ft.-lbs.)	4668	3413	2895	2043	1701	816
TRAJ: 200 yds. zero	-1.5"	0.0	-7.3"	-43.3"	-74.7"	-340.7"
TRAJ: 300 yds. zero	-1.5"	4.9"	0.0	-31.1"	-60.0"	-316.2"
TRAJ: 500 yds. zero	-1.5"	17.3"	18.6"	0.0	-22.8"	-254.1"
TRAJ: 600 yds. zero	-1.5"	24.9"	30.0"	19.0"	0.0	-216.2"
TRAJ: 1000 yds. zero	-1.5"	68.1"	94.9"	127.1"	129.7"	0.0
VELOCITY (fps)	2800	2389	2197	1840	1677	1170
ENERGY (ft.-lbs.)	4351	3167	2678	1879	1561	759
TRAJ: 200 yds. zero	-1.5"	0.0	-7.9"	-46.9"	-80.9"	-370.1"
TRAJ: 300 yds. zero	-1.5"	5.3"	0.0	-33.6"	-65.0"	-343.6"
TRAJ: 500 yds. zero	-1.5"	18.8"	20.2"	0.0	-24.7"	-276.4"
TRAJ: 600 yds. zero	-1.5"	27.0"	32.5"	20.6"	0.0	-235.2"
TRAJ: 1000 yds. zero	-1.5"	74.0"	103.1"	138.2"	141.1"	0.0
VELOCITY (fps)	2700	2298	2110	1762	1605	1130
ENERGY (ft.-lbs.)	4046	2930	2470	1724	1429	709
TRAJ: 200 yds. zero	-1.5"	0.0	-8.6"	-50.9"	-88.0"	-403.0"
TRAJ: 300 yds. zero	-1.5"	5.8"	0.0	-36.5"	-70.7"	-374.2"
TRAJ: 500 yds. zero	-1.5"	20.4"	21.9"	0.0	-26.9"	-301.2"
TRAJ: 600 yds. zero	-1.5"	29.3"	35.4"	22.4"	0.0	-256.4"
TRAJ: 1000 yds. zero	-1.5"	80.6"	112.3"	150.6"	153.8"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2600	2206	2023	1685	1534	1094
ENERGY (ft.-lbs.)	3752	2702	2271	1576	1305	665
TRAJ: 200 yds. zero	-1.5"	0.0	-9.4"	-55.5"	-96.0"	-439.7"
TRAJ: 300 yds. zero	-1.5"	6.3"	0.0	-39.8"	-77.1"	-408.3"
TRAJ: 500 yds. zero	-1.5"	22.2"	23.9"	0.0	-29.3"	-328.6"
TRAJ: 600 yds. zero	-1.5"	32.0"	38.6"	24.5"	0.0	-279.7"
TRAJ: 1000 yds. zero	-1.5"	87.9"	122.5"	164.3"	167.8"	0.0
VELOCITY (fps)	2500	2115	1936	1609	1464	1062
ENERGY (ft.-lbs.)	3469	2483	2080	1437	1190	626
TRAJ: 200 yds. zero	-1.5"	0.0	-10.3"	-60.7"	-105.0"	-480.3"
TRAJ: 300 yds. zero	-1.5"	6.9"	0.0	-43.5"	-84.4"	-445.9"
TRAJ: 500 yds. zero	-1.5"	24.3"	26.1"	0.0	-32.1"	-358.8"
TRAJ: 600 yds. zero	-1.5"	35.0"	42.2"	26.8"	0.0	-305.2"
TRAJ: 1000 yds. zero	-1.5"	96.1"	133.8"	179.4"	183.1"	0.0
VELOCITY (fps)	2400	2024	1850	1535	1397	1033
ENERGY (ft.-lbs.)	3197	2274	1899	1307	1083	592
TRAJ: 200 yds. zero	-1.5"	0.0	-11.3"	-66.6"	-115.3"	-525.0"
TRAJ: 300 yds. zero	-1.5"	7.6"	0.0	-47.8"	-92.6"	-487.3"
TRAJ: 500 yds. zero	-1.5"	26.7"	28.7"	0.0	-35.3"	-391.8"
TRAJ: 600 yds. zero	-1.5"	38.4"	46.3"	29.4"	0.0	-332.9"
TRAJ: 1000 yds. zero	-1.5"	105.0"	146.2"	195.9"	199.7"	0.0

375 CALIBER (.375" Dia.) 300 GRAIN BOAT TAIL SPIRE POINT

SECTIONAL DENSITY: .305 BALLISTIC COEFFICIENT: .460

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2900	2505	2320	1974	1813	1280
ENERGY (ft.-lbs.)	5601	4179	3585	2594	2189	1090
TRAJ: 200 yds. zero	-1.5"	0.0	-7.2"	-42.1"	-72.3"	-321.8"
TRAJ: 300 yds. zero	-1.5"	4.8"	0.0	-30.1"	-57.9"	-297.8"
TRAJ: 500 yds. zero	-1.5"	16.8"	18.1"	0.0	-21.8"	-237.6"
TRAJ: 600 yds. zero	-1.5"	24.1"	28.9"	18.1"	0.0	-201.4"
TRAJ: 1000 yds. zero	-1.5"	64.4"	89.4"	118.8"	120.8"	0.0
VELOCITY (fps)	2800	2414	2232	1894	1737	1230
ENERGY (ft.-lbs.)	5222	3880	3319	2389	2010	1008
TRAJ: 200 yds. zero	-1.5"	0.0	-7.8"	-45.6"	-78.3"	-349.6"
TRAJ: 300 yds. zero	-1.5"	5.2"	0.0	-32.6"	-62.7"	-323.6"
TRAJ: 500 yds. zero	-1.5"	18.2"	19.6"	0.0	-23.6"	-258.4"
TRAJ: 600 yds. zero	-1.5"	26.1"	31.4"	19.7"	0.0	-219.1"
TRAJ: 1000 yds. zero	-1.5"	69.9"	97.1"	129.2"	131.4"	0.0
VELOCITY (fps)	2700	2322	2145	1814	1663	1184
ENERGY (ft.-lbs.)	4855	3590	3063	2192	1842	934
TRAJ: 200 yds. zero	-1.5"	0.0	-8.5"	-49.5"	-85.1"	-380.7"
TRAJ: 300 yds. zero	-1.5"	5.7"	0.0	-35.4"	-68.1"	-352.4"
TRAJ: 500 yds. zero	-1.5"	19.8"	21.2"	0.0	-25.7"	-281.7"
TRAJ: 600 yds. zero	-1.5"	28.4"	34.1"	21.4"	0.0	-238.9"
TRAJ: 1000 yds. zero	-1.5"	76.1"	105.7"	140.8"	143.3"	0.0
VELOCITY (fps)	2600	2230	2057	1735	1589	1142
ENERGY (ft.-lbs.)	4502	3312	2817	2006	1682	869
TRAJ: 200 yds. zero	-1.5"	0.0	-9.2"	-54.0"	-92.8"	-415.5"
TRAJ: 300 yds. zero	-1.5"	6.2"	0.0	-38.5"	-74.3"	-384.7"
TRAJ: 500 yds. zero	-1.5"	21.6"	23.1"	0.0	-28.0"	-307.6"
TRAJ: 600 yds. zero	-1.5"	30.9"	37.1"	23.3"	0.0	-260.9"
TRAJ: 1000 yds. zero	-1.5"	83.1"	115.4"	153.8"	156.6"	0.0
VELOCITY (fps)	2500	2138	1969	1658	1517	1104
ENERGY (ft.-lbs.)	4163	3045	2583	1830	1533	812
TRAJ: 200 yds. zero	-1.5"	0.0	-10.1"	-59.0"	-101.4"	-454.4"
TRAJ: 300 yds. zero	-1.5"	6.7"	0.0	-42.1"	-81.2"	-420.7"
TRAJ: 500 yds. zero	-1.5"	23.6"	25.3"	0.0	-30.7"	-336.5"
TRAJ: 600 yds. zero	-1.5"	33.8"	40.6"	25.6"	0.0	-285.4"
TRAJ: 1000 yds. zero	-1.5"	90.9"	126.2"	168.2"	171.2"	0.0
VELOCITY (fps)	2400	2047	1882	1581	1447	1070
ENERGY (ft.-lbs.)	3836	2790	2359	1665	1395	763
TRAJ: 200 yds. zero	-1.5"	0.0	-11.1"	-64.7"	-111.3"	-497.6"
TRAJ: 300 yds. zero	-1.5"	7.4"	0.0	-46.2"	-89.1"	-460.6"
TRAJ: 500 yds. zero	-1.5"	25.9"	27.7"	0.0	-33.7"	-368.3"
TRAJ: 600 yds. zero	-1.5"	37.1"	44.5"	28.1"	0.0	-312.2"
TRAJ: 1000 yds. zero	-1.5"	99.5"	138.2"	184.1"	187.3"	0.0

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2300	1955	1795	1506	1380	1039
ENERGY (ft.-lbs.)	3523	2546	2147	1511	1267	720
TRAJ: 200 yds. zero	-1.5"	0.0	-12.2"	-71.2"	-122.5"	-545.4"
TRAJ: 300 yds. zero	-1.5"	8.1"	0.0	-50.8"	-98.0"	-504.7"
TRAJ: 500 yds. zero	-1.5"	28.5"	30.5"	0.0	-37.1"	-403.1"
TRAJ: 600 yds. zero	-1.5"	40.8"	49.0"	30.9"	0.0	-341.3"
TRAJ: 1000 yds. zero	-1.5"	109.1"	151.4"	201.5"	204.8"	0.0

TRAJECTORY TABLES (RIFLE SILHOUETTE)

25 CALIBER (.257" Dia.) 117 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .253 BALLISTIC COEFFICIENT: .376

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3300	3007	2732	2474	2266	2000
ENERGY (ft.-lbs.)	2829	2348	1939	1590	1333	1039
TRAJ: 100 m. zero	-1.5"	0.0	-3.1"	-11.8"	-24.5"	-51.2"
TRAJ: 200 m. zero	-1.5"	1.6"	0.0	-7.1"	-18.5"	-43.4"
TRAJ: 300 m. zero	-1.5"	3.9"	4.8"	0.0	-9.3"	-31.5"
TRAJ: 385 m. zero	-1.5"	6.4"	9.6"	7.3"	0.0	-19.4"
TRAJ: 500 m. zero	-1.5"	10.2"	17.4"	18.9"	14.9"	0.0
VELOCITY (fps)	3200	2913	2644	2391	2187	1926
ENERGY (ft.-lbs.)	2660	2205	1816	1485	1242	964
TRAJ: 100 m. zero	-1.5"	0.0	-3.4"	-12.8"	-26.4"	-55.1"
TRAJ: 200 m. zero	-1.5"	1.7"	0.0	-7.7"	-19.9"	-46.6"
TRAJ: 300 m. zero	-1.5"	4.3"	5.1"	0.0	-10.0"	-33.8"
TRAJ: 385 m. zero	-1.5"	6.9"	10.3"	7.8"	0.0	-20.8"
TRAJ: 500 m. zero	-1.5"	11.0"	18.6"	20.3"	16.0"	0.0
VELOCITY (fps)	3100	2820	2556	2308	2107	1853
ENERGY (ft.-lbs.)	2496	2065	1697	1383	1154	892
TRAJ: 100 m. zero	-1.5"	0.0	-3.7"	-13.9"	-28.6"	-59.5"
TRAJ: 200 m. zero	-1.5"	1.9"	0.0	-8.3"	-21.4"	-50.1"
TRAJ: 300 m. zero	-1.5"	4.6"	5.5"	0.0	-10.8"	-36.4"
TRAJ: 385 m. zero	-1.5"	7.4"	11.1"	8.4"	0.0	-22.4"
TRAJ: 500 m. zero	-1.5"	11.9"	20.1"	21.8"	17.2"	0.0
VELOCITY (fps)	3000	2726	2468	2224	2028	1780
ENERGY (ft.-lbs.)	2338	1930	1582	1285	1068	823
TRAJ: 100 m. zero	-1.5"	0.0	-4.1"	-15.1"	-30.9"	-64.3"
TRAJ: 200 m. zero	-1.5"	2.1"	0.0	-8.9"	-23.0"	-54.1"
TRAJ: 300 m. zero	-1.5"	5.0"	5.9"	0.0	-11.6"	-39.2"
TRAJ: 385 m. zero	-1.5"	8.0"	12.0"	9.0"	0.0	-24.2"
TRAJ: 500 m. zero	-1.5"	12.9"	21.6"	23.5"	18.6"	0.0
VELOCITY (fps)	2900	2632	2379	2140	1949	1707
ENERGY (ft.-lbs.)	2184	1799	1470	1190	986	757
TRAJ: 100 m. zero	-1.5"	0.0	-4.5"	-16.4"	-33.6"	-69.8"
TRAJ: 200 m. zero	-1.5"	2.3"	0.0	-9.6"	-24.9"	-58.5"
TRAJ: 300 m. zero	-1.5"	5.5"	6.4"	0.0	-12.5"	-42.4"
TRAJ: 385 m. zero	-1.5"	8.7"	12.9"	9.8"	0.0	-26.2"
TRAJ: 500 m. zero	-1.5"	14.0"	23.4"	25.5"	20.1"	0.0
VELOCITY (fps)	2800	2538	2290	2057	1870	1635
ENERGY (ft.-lbs.)	2036	1673	1362	1099	908	695
TRAJ: 100 m. zero	-1.5"	0.0	-5.0"	-17.9"	-36.6"	-75.9"
TRAJ: 200 m. zero	-1.5"	2.5"	0.0	-10.4"	-27.0"	-63.4"
TRAJ: 300 m. zero	-1.5"	6.0"	7.0"	0.0	-13.6"	-46.0"
TRAJ: 385 m. zero	-1.5"	9.5"	14.0"	10.6"	0.0	-28.4"
TRAJ: 500 m. zero	-1.5"	15.2"	25.4"	27.6"	21.9"	0.0
VELOCITY (fps)	2700	2443	2201	1973	1791	1565
ENERGY (ft.-lbs.)	1894	1551	1259	1011	833	636
TRAJ: 100 m. zero	-1.5"	0.0	-5.5"	-19.6"	-39.9"	-82.8"
TRAJ: 200 m. zero	-1.5"	2.7"	0.0	-11.4"	-29.3"	-69.0"
TRAJ: 300 m. zero	-1.5"	6.5"	7.6"	0.0	-14.8"	-50.1"
TRAJ: 385 m. zero	-1.5"	10.4"	15.2"	11.5"	0.0	-30.9"
TRAJ: 500 m. zero	-1.5"	16.6"	27.6"	30.1"	23.8"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2600	2349	2112	1889	1713	1495
ENERGY (ft.-lbs.)	1756	1433	1159	927	762	581
TRAJ: 100 m. zero	-1.5"	0.0	-6.1"	-21.5"	-43.7"	-90.5"
TRAJ: 200 m. zero	-1.5"	3.0"	0.0	-12.4"	-32.0"	-75.3"
TRAJ: 300 m. zero	-1.5"	7.2"	8.3"	0.0	-16.1"	-54.7"
TRAJ: 385 m. zero	-1.5"	11.3"	16.6"	12.6"	0.0	-33.8"
TRAJ: 500 m. zero	-1.5"	18.1"	30.1"	32.8"	26.0"	0.0
VELOCITY (fps)	2500	2255	2023	1806	1636	1428
ENERGY (ft.-lbs.)	1623	1320	1063	848	695	530
TRAJ: 100 m. zero	-1.5"	0.0	-6.7"	-23.6"	-47.9"	-99.3"
TRAJ: 200 m. zero	-1.5"	3.4"	0.0	-13.6"	-35.0"	-82.5"
TRAJ: 300 m. zero	-1.5"	7.9"	9.0"	0.0	-17.6"	-59.9"
TRAJ: 385 m. zero	-1.5"	12.5"	18.2"	13.7"	0.0	-37.0"
TRAJ: 500 m. zero	-1.5"	19.9"	33.0"	35.9"	28.5"	0.0
VELOCITY (fps)	2400	2160	1934	1724	1560	1363
ENERGY (ft.-lbs.)	1496	1212	972	772	632	482
TRAJ: 100 m. zero	-1.5"	0.0	-7.4"	-26.1"	-52.8"	-109.2"
TRAJ: 200 m. zero	-1.5"	3.7"	0.0	-14.9"	-38.4"	-90.6"
TRAJ: 300 m. zero	-1.5"	8.7"	9.9"	0.0	-19.3"	-65.8"
TRAJ: 385 m. zero	-1.5"	13.7"	20.0"	15.1"	0.0	-40.7"
TRAJ: 500 m. zero	-1.5"	21.8"	36.2"	39.5"	31.3"	0.0
VELOCITY (fps)	2300	2066	1846	1643	1486	1301
ENERGY (ft.-lbs.)	1374	1109	885	701	574	440
TRAJ: 100 m. zero	-1.5"	0.0	-8.3"	-28.8"	-58.3"	-120.5"
TRAJ: 200 m. zero	-1.5"	4.1"	0.0	-16.4"	-42.3"	-99.8"
TRAJ: 300 m. zero	-1.5"	9.6"	10.9"	0.0	-21.3"	-72.5"
TRAJ: 385 m. zero	-1.5"	15.1"	22.0"	16.6"	0.0	-44.8"
TRAJ: 500 m. zero	-1.5"	24.1"	39.9"	43.5"	34.5"	0.0

25 CALIBER (.257" Dia.) 120 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .260 BALLISTIC COEFFICIENT: .394

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3300	3020	2757	2508	2308	2051
ENERGY (ft.-lbs.)	2901	2429	2024	1676	1419	1121
TRAJ: 100 m. zero	-1.5"	0.0	-3.1"	-11.6"	-24.0"	-50.0"
TRAJ: 200 m. zero	-1.5"	1.5"	0.0	-7.0"	-18.1"	-42.4"
TRAJ: 300 m. zero	-1.5"	3.9"	4.7"	0.0	-9.1"	-30.7"
TRAJ: 385 m. zero	-1.5"	6.2"	9.4"	7.1"	0.0	-18.8"
TRAJ: 500 m. zero	-1.5"	10.0"	16.9"	18.4"	14.5"	0.0
VELOCITY (fps)	3200	2926	2668	2425	2228	1977
ENERGY (ft.-lbs.)	2728	2281	1897	1567	1323	1041
TRAJ: 100 m. zero	-1.5"	0.0	-3.4"	-12.6"	-25.9"	-53.9"
TRAJ: 200 m. zero	-1.5"	1.7"	0.0	-7.5"	-19.5"	-45.4"
TRAJ: 300 m. zero	-1.5"	4.2"	5.0"	0.0	-9.8"	-32.9"
TRAJ: 385 m. zero	-1.5"	6.7"	10.1"	7.6"	0.0	-20.2"
TRAJ: 500 m. zero	-1.5"	10.8"	18.2"	19.7"	15.5"	0.0
VELOCITY (fps)	3100	2832	2580	2341	2148	1902
ENERGY (ft.-lbs.)	2560	2137	1773	1460	1229	964
TRAJ: 100 m. zero	-1.5"	0.0	-3.7"	-13.7"	-28.0"	-58.1"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-8.1"	-20.9"	-48.9"
TRAJ: 300 m. zero	-1.5"	4.6"	5.4"	0.0	-10.5"	-35.4"
TRAJ: 385 m. zero	-1.5"	7.3"	10.9"	8.2"	0.0	-21.7"
TRAJ: 500 m. zero	-1.5"	11.6"	19.5"	21.2"	16.7"	0.0
VELOCITY (fps)	3000	2738	2491	2257	2068	1828
ENERGY (ft.-lbs.)	2398	1997	1653	1357	1139	890
TRAJ: 100 m. zero	-1.5"	0.0	-4.1"	-14.8"	-30.4"	-62.8"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.7"	-22.6"	-52.7"
TRAJ: 300 m. zero	-1.5"	4.9"	5.8"	0.0	-11.3"	-38.1"
TRAJ: 385 m. zero	-1.5"	7.9"	11.7"	8.8"	0.0	-23.4"
TRAJ: 500 m. zero	-1.5"	12.6"	21.1"	22.9"	18.0"	0.0
VELOCITY (fps)	2900	2644	2402	2172	1988	1753
ENERGY (ft.-lbs.)	2240	1862	1537	1257	1052	819
TRAJ: 100 m. zero	-1.5"	0.0	-4.5"	-16.2"	-33.0"	-68.1"
TRAJ: 200 m. zero	-1.5"	2.2"	0.0	-9.5"	-24.4"	-57.0"
TRAJ: 300 m. zero	-1.5"	5.4"	6.3"	0.0	-12.2"	-41.2"
TRAJ: 385 m. zero	-1.5"	8.6"	12.7"	9.5"	0.0	-25.3"
TRAJ: 500 m. zero	-1.5"	13.6"	22.8"	24.7"	19.5"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2800	2549	2312	2088	1907	1680
ENERGY (ft.-lbs.)	2089	1732	1424	1161	969	752
TRAJ: 100 m. zero	-1.5"	0.0	-4.9"	-17.6"	-35.9"	-74.1"
TRAJ: 200 m. zero	-1.5"	2.5"	0.0	-10.3"	-26.4"	-61.8"
TRAJ: 300 m. zero	-1.5"	5.9"	6.8"	0.0	-13.3"	-44.7"
TRAJ: 385 m. zero	-1.5"	9.3"	13.7"	10.3"	0.0	-27.5"
TRAJ: 500 m. zero	-1.5"	14.8"	24.7"	26.8"	21.1"	0.0
VELOCITY (fps)	2700	2455	2223	2003	1827	1607
ENERGY (ft.-lbs.)	1942	1605	1316	1069	890	688
TRAJ: 100 m. zero	-1.5"	0.0	-5.4"	-19.3"	-39.2"	-80.7"
TRAJ: 200 m. zero	-1.5"	2.7"	0.0	-11.2"	-28.7"	-67.2"
TRAJ: 300 m. zero	-1.5"	6.4"	7.4"	0.0	-14.4"	-48.6"
TRAJ: 385 m. zero	-1.5"	10.2"	14.9"	11.2"	0.0	-29.9"
TRAJ: 500 m. zero	-1.5"	16.1"	26.9"	29.2"	23.0"	0.0
VELOCITY (fps)	2600	2360	2133	1919	1748	1536
ENERGY (ft.-lbs.)	1801	1484	1212	981	814	629
TRAJ: 100 m. zero	-1.5"	0.0	-6.0"	-21.1"	-42.8"	-88.3"
TRAJ: 200 m. zero	-1.5"	3.0"	0.0	-12.2"	-31.3"	-73.3"
TRAJ: 300 m. zero	-1.5"	7.0"	8.1"	0.0	-15.7"	-53.0"
TRAJ: 385 m. zero	-1.5"	11.1"	16.3"	12.2"	0.0	-32.6"
TRAJ: 500 m. zero	-1.5"	17.7"	29.3"	31.8"	25.1"	0.0
VELOCITY (fps)	2500	2265	2044	1835	1670	1467
ENERGY (ft.-lbs.)	1665	1367	1113	897	743	573
TRAJ: 100 m. zero	-1.5"	0.0	-6.6"	-23.2"	-47.0"	-96.8"
TRAJ: 200 m. zero	-1.5"	3.3"	0.0	-13.3"	-34.3"	-80.2"
TRAJ: 300 m. zero	-1.5"	7.7"	8.9"	0.0	-17.2"	-58.1"
TRAJ: 385 m. zero	-1.5"	12.2"	17.8"	13.4"	0.0	-35.8"
TRAJ: 500 m. zero	-1.5"	19.4"	32.1"	34.8"	27.5"	0.0
VELOCITY (fps)	2400	2171	1954	1752	1593	1399
ENERGY (ft.-lbs.)	1535	1255	1018	818	676	522
TRAJ: 100 m. zero	-1.5"	0.0	-7.4"	-25.6"	-51.7"	-106.5"
TRAJ: 200 m. zero	-1.5"	3.7"	0.0	-14.6"	-37.6"	-88.1"
TRAJ: 300 m. zero	-1.5"	8.5"	9.7"	0.0	-18.8"	-63.8"
TRAJ: 385 m. zero	-1.5"	13.4"	19.5"	14.7"	0.0	-39.3"
TRAJ: 500 m. zero	-1.5"	21.3"	35.2"	38.3"	30.2"	0.0
VELOCITY (fps)	2300	2076	1866	1670	1517	1335
ENERGY (ft.-lbs.)	1409	1148	927	743	613	475
TRAJ: 100 m. zero	-1.5"	0.0	-8.2"	-28.4"	-57.1"	-117.5"
TRAJ: 200 m. zero	-1.5"	4.1"	0.0	-16.1"	-41.4"	-97.0"
TRAJ: 300 m. zero	-1.5"	9.5"	10.7"	0.0	-20.8"	-70.2"
TRAJ: 385 m. zero	-1.5"	14.8"	21.5"	16.2"	0.0	-43.2"
TRAJ: 500 m. zero	-1.5"	23.5"	38.8"	42.1"	33.3"	0.0

6.5MM CALIBER (.264" Dia.) 129 GRAIN SPIRE POINT
SECTIONAL DENSITY: .264 BALLISTIC COEFFICIENT: .445

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3300	3051	2816	2592	2411	2177
ENERGY (ft.-lbs.)	3119	2666	2270	1924	1664	1357
TRAJ: 100 m. zero	-1.5"	0.0	-3.0"	-11.2"	-23.0"	-47.4"
TRAJ: 200 m. zero	-1.5"	1.5"	0.0	-6.7"	-17.3"	-40.0"
TRAJ: 300 m. zero	-1.5"	3.7"	4.5"	0.0	-8.6"	-28.7"
TRAJ: 385 m. zero	-1.5"	6.0"	9.0"	6.7"	0.0	-17.5"
TRAJ: 500 m. zero	-1.5"	9.5"	16.0"	17.2"	13.5"	0.0
VELOCITY (fps)	3200	2957	2726	2507	2329	2100
ENERGY (ft.-lbs.)	2933	2503	2128	1800	1554	1263
TRAJ: 100 m. zero	-1.5"	0.0	-3.3"	-12.1"	-24.8"	-51.0"
TRAJ: 200 m. zero	-1.5"	1.6"	0.0	-7.2"	-18.5"	-42.8"
TRAJ: 300 m. zero	-1.5"	4.0"	4.8"	0.0	-9.3"	-30.8"
TRAJ: 385 m. zero	-1.5"	6.4"	9.6"	7.2"	0.0	-18.7"
TRAJ: 500 m. zero	-1.5"	10.2"	17.1"	18.5"	14.4"	0.0
VELOCITY (fps)	3100	2862	2636	2422	2247	2022
ENERGY (ft.-lbs.)	2752	2346	1991	1680	1446	1171
TRAJ: 100 m. zero	-1.5"	0.0	-3.6"	-13.2"	-26.8"	-55.0"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.8"	-19.9"	-46.0"
TRAJ: 300 m. zero	-1.5"	4.4"	5.2"	0.0	-9.9"	-33.1"
TRAJ: 385 m. zero	-1.5"	7.0"	10.4"	7.7"	0.0	-20.1"
TRAJ: 500 m. zero	-1.5"	11.0"	18.4"	19.8"	15.5"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3000	2767	2546	2336	2165	1945
ENERGY (ft.-lbs.)	2578	2193	1857	1563	1342	1083
TRAJ: 100 m. zero	-1.5"	0.0	-3.9"	-14.3"	-29.1"	-59.4"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.4"	-21.5"	-49.6"
TRAJ: 300 m. zero	-1.5"	4.8"	5.6"	0.0	-10.7"	-35.6"
TRAJ: 385 m. zero	-1.5"	7.5"	11.2"	8.3"	0.0	-21.7"
TRAJ: 500 m. zero	-1.5"	11.9"	19.8"	21.4"	16.7"	0.0
VELOCITY (fps)	2900	2672	2456	2250	2082	1868
ENERGY (ft.-lbs.)	2409	2045	1728	1450	1242	999
TRAJ: 100 m. zero	-1.5"	0.0	-4.3"	-15.6"	-31.5"	-64.4"
TRAJ: 200 m. zero	-1.5"	2.2"	0.0	-9.1"	-23.2"	-53.6"
TRAJ: 300 m. zero	-1.5"	5.2"	6.0"	0.0	-11.6"	-38.4"
TRAJ: 385 m. zero	-1.5"	8.2"	12.0"	9.0"	0.0	-23.4"
TRAJ: 500 m. zero	-1.5"	12.9"	21.4"	23.1"	18.1"	0.0
VELOCITY (fps)	2800	2577	2365	2164	2000	1791
ENERGY (ft.-lbs.)	2245	1903	1602	1341	1145	918
TRAJ: 100 m. zero	-1.5"	0.0	-4.8"	-17.0"	-34.3"	-70.0"
TRAJ: 200 m. zero	-1.5"	2.4"	0.0	-9.8"	-25.1"	-58.0"
TRAJ: 300 m. zero	-1.5"	5.7"	6.6"	0.0	-12.5"	-41.6"
TRAJ: 385 m. zero	-1.5"	8.9"	13.1"	9.7"	0.0	-25.4"
TRAJ: 500 m. zero	-1.5"	14.0"	23.2"	25.0"	19.6"	0.0
VELOCITY (fps)	2700	2482	2275	2077	1917	1714
ENERGY (ft.-lbs.)	2088	1765	1482	1236	1053	842
TRAJ: 100 m. zero	-1.5"	0.0	-5.3"	-18.6"	-37.4"	-76.2"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.7"	-27.3"	-63.1"
TRAJ: 300 m. zero	-1.5"	6.2"	7.1"	0.0	-13.6"	-45.2"
TRAJ: 385 m. zero	-1.5"	9.7"	14.2"	10.6"	0.0	-27.6"
TRAJ: 500 m. zero	-1.5"	15.2"	25.2"	27.1"	21.3"	0.0
VELOCITY (fps)	2600	2387	2184	1991	1836	1639
ENERGY (ft.-lbs.)	1936	1632	1366	1135	965	769
TRAJ: 100 m. zero	-1.5"	0.0	-5.8"	-20.4"	-40.9"	-83.3"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.6"	-29.7"	-68.7"
TRAJ: 300 m. zero	-1.5"	6.8"	7.8"	0.0	-14.8"	-49.3"
TRAJ: 385 m. zero	-1.5"	10.6"	15.4"	11.5"	0.0	-30.1"
TRAJ: 500 m. zero	-1.5"	16.7"	27.5"	29.6"	23.2"	0.0
VELOCITY (fps)	2500	2292	2093	1905	1754	1565
ENERGY (ft.-lbs.)	1790	1504	1255	1040	881	701
TRAJ: 100 m. zero	-1.5"	0.0	-6.4"	-22.4"	-44.9"	-91.2"
TRAJ: 200 m. zero	-1.5"	3.2"	0.0	-12.7"	-32.5"	-75.1"
TRAJ: 300 m. zero	-1.5"	7.5"	8.5"	0.0	-16.2"	-53.9"
TRAJ: 385 m. zero	-1.5"	11.7"	16.9"	12.6"	0.0	-32.9"
TRAJ: 500 m. zero	-1.5"	18.2"	30.1"	32.4"	25.4"	0.0
VELOCITY (fps)	2400	2196	2003	1820	1674	1492
ENERGY (ft.-lbs.)	1650	1382	1149	949	802	638
TRAJ: 100 m. zero	-1.5"	0.0	-7.1"	-24.7"	-49.4"	-100.3"
TRAJ: 200 m. zero	-1.5"	3.6"	0.0	-14.0"	-35.6"	-82.4"
TRAJ: 300 m. zero	-1.5"	8.2"	9.3"	0.0	-17.7"	-59.2"
TRAJ: 385 m. zero	-1.5"	12.8"	18.5"	13.8"	0.0	-36.2"
TRAJ: 500 m. zero	-1.5"	20.1"	33.0"	35.5"	27.8"	0.0
VELOCITY (fps)	2300	2101	1913	1735	1595	1422
ENERGY (ft.-lbs.)	1515	1264	1048	863	728	579
TRAJ: 100 m. zero	-1.5"	0.0	-7.9"	-27.3"	-54.5"	-110.6"
TRAJ: 200 m. zero	-1.5"	4.0"	0.0	-15.4"	-39.2"	-90.7"
TRAJ: 300 m. zero	-1.5"	9.1"	10.2"	0.0	-19.5"	-65.1"
TRAJ: 385 m. zero	-1.5"	14.2"	20.4"	15.2"	0.0	-39.8"
TRAJ: 500 m. zero	-1.5"	22.1"	36.3"	39.1"	30.7"	0.0
VELOCITY (fps)	2200	2006	1823	1652	1517	1354
ENERGY (ft.-lbs.)	1386	1153	952	782	659	525
TRAJ: 100 m. zero	-1.5"	0.0	-8.9"	-30.3"	-60.3"	-122.3"
TRAJ: 200 m. zero	-1.5"	4.4"	0.0	-17.0"	-43.3"	-100.2"
TRAJ: 300 m. zero	-1.5"	10.1"	11.3"	0.0	-21.5"	-71.9"
TRAJ: 385 m. zero	-1.5"	15.7"	22.5"	16.8"	0.0	-44.0"
TRAJ: 500 m. zero	-1.5"	24.5"	40.1"	43.1"	33.8"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2100	1912	1734	1570	1442	1290
ENERGY (ft.-lbs.)	1263	1046	861	706	596	477
TRAJ: 100 m. zero	-1.5"	0.0	-9.9"	-33.7"	-67.1"	-135.8"
TRAJ: 200 m. zero	-1.5"	5.0"	0.0	-18.8"	-48.0"	-111.0"
TRAJ: 300 m. zero	-1.5"	11.2"	12.5"	0.0	-23.8"	-79.6"
TRAJ: 385 m. zero	-1.5"	17.4"	24.9"	18.6"	0.0	-48.7"
TRAJ: 500 m. zero	-1.5"	27.2"	44.4"	47.8"	37.5"	0.0
VELOCITY (fps)	2000	1817	1647	1490	1370	1230
ENERGY (ft.-lbs.)	1146	946	776	636	537	433
TRAJ: 100 m. zero	-1.5"	0.0	-11.1"	-37.6"	-74.8"	-151.1"
TRAJ: 200 m. zero	-1.5"	5.6"	0.0	-20.9"	-53.4"	-123.3"
TRAJ: 300 m. zero	-1.5"	12.5"	14.0"	0.0	-26.5"	-88.4"
TRAJ: 385 m. zero	-1.5"	19.4"	27.7"	20.6"	0.0	-54.0"
TRAJ: 500 m. zero	-1.5"	30.2"	49.3"	53.1"	41.6"	0.0
VELOCITY (fps)	1900	1724	1560	1412	1301	1175
ENERGY (ft.-lbs.)	1034	851	697	571	484	395
TRAJ: 100 m. zero	-1.5"	0.0	-12.5"	-42.2"	-83.7"	-168.7"
TRAJ: 200 m. zero	-1.5"	6.3"	0.0	-23.4"	-59.6"	-137.4"
TRAJ: 300 m. zero	-1.5"	14.1"	15.6"	0.0	-29.5"	-98.4"
TRAJ: 385 m. zero	-1.5"	21.7"	30.9"	23.0"	0.0	-60.0"
TRAJ: 500 m. zero	-1.5"	33.7"	55.0"	59.0"	46.2"	0.0

6.5MM CALIBER (.264" Dia.) 140 GRAIN SPIRE POINT
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .465

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3200	2967	2745	2535	2363	2142
ENERGY (ft.-lbs.)	3183	2736	2343	1997	1736	1426
TRAJ: 100 m. zero	-1.5"	0.0	-3.2"	-12.0"	-24.5"	-50.1"
TRAJ: 200 m. zero	-1.5"	1.6"	0.0	-7.1"	-18.3"	-42.0"
TRAJ: 300 m. zero	-1.5"	4.0"	4.8"	0.0	-9.1"	-30.1"
TRAJ: 385 m. zero	-1.5"	6.4"	9.5"	7.1"	0.0	-18.3"
TRAJ: 500 m. zero	-1.5"	10.0"	16.8"	18.1"	14.1"	0.0
VELOCITY (fps)	3100	2872	2655	2449	2281	2063
ENERGY (ft.-lbs.)	2987	2564	2191	1864	1617	1323
TRAJ: 100 m. zero	-1.5"	0.0	-3.5"	-13.0"	-26.4"	-54.0"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.7"	-19.6"	-45.1"
TRAJ: 300 m. zero	-1.5"	4.3"	5.1"	0.0	-9.8"	-32.3"
TRAJ: 385 m. zero	-1.5"	6.9"	10.2"	7.6"	0.0	-19.7"
TRAJ: 500 m. zero	-1.5"	10.8"	18.1"	19.4"	15.1"	0.0
VELOCITY (fps)	3000	2777	2565	2362	2198	1985
ENERGY (ft.-lbs.)	2797	2397	2045	1735	1501	1225
TRAJ: 100 m. zero	-1.5"	0.0	-3.9"	-14.1"	-28.6"	-58.4"
TRAJ: 200 m. zero	-1.5"	1.9"	0.0	-8.3"	-21.1"	-48.6"
TRAJ: 300 m. zero	-1.5"	4.7"	5.5"	0.0	-10.5"	-34.8"
TRAJ: 385 m. zero	-1.5"	7.4"	11.0"	8.2"	0.0	-21.2"
TRAJ: 500 m. zero	-1.5"	11.7"	19.4"	20.9"	16.3"	0.0
VELOCITY (fps)	2900	2682	2474	2276	2114	1907
ENERGY (ft.-lbs.)	2614	2236	1903	1610	1389	1130
TRAJ: 100 m. zero	-1.5"	0.0	-4.3"	-15.4"	-31.1"	-63.2"
TRAJ: 200 m. zero	-1.5"	2.1"	0.0	-8.9"	-22.8"	-52.5"
TRAJ: 300 m. zero	-1.5"	5.1"	6.0"	0.0	-11.3"	-37.6"
TRAJ: 385 m. zero	-1.5"	8.1"	11.9"	8.8"	0.0	-22.9"
TRAJ: 500 m. zero	-1.5"	12.6"	21.0"	22.6"	17.6"	0.0
VELOCITY (fps)	2800	2587	2383	2189	2031	1829
ENERGY (ft.-lbs.)	2437	2080	1765	1489	1282	1039
TRAJ: 100 m. zero	-1.5"	0.0	-4.7"	-16.8"	-33.8"	-68.7"
TRAJ: 200 m. zero	-1.5"	2.4"	0.0	-9.7"	-24.7"	-56.9"
TRAJ: 300 m. zero	-1.5"	5.6"	6.5"	0.0	-12.3"	-40.7"
TRAJ: 385 m. zero	-1.5"	8.8"	12.8"	9.6"	0.0	-24.8"
TRAJ: 500 m. zero	-1.5"	13.7"	22.7"	24.4"	19.1"	0.0
VELOCITY (fps)	2700	2491	2292	2102	1948	1751
ENERGY (ft.-lbs.)	2266	1929	1633	1374	1179	953
TRAJ: 100 m. zero	-1.5"	0.0	-5.2"	-18.3"	-36.9"	-74.8"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.5"	-26.8"	-61.8"
TRAJ: 300 m. zero	-1.5"	6.1"	7.0"	0.0	-13.3"	-44.2"
TRAJ: 385 m. zero	-1.5"	9.6"	13.9"	10.4"	0.0	-26.9"
TRAJ: 500 m. zero	-1.5"	15.0"	24.7"	26.5"	20.7"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2600	2396	2201	2015	1865	1674
ENERGY (ft.-lbs.)	2101	1784	1506	1262	1081	871
TRAJ: 100 m. zero	-1.5"	0.0	-5.8"	-20.1"	-40.3"	-81.7"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.5"	-29.2"	-67.3"
TRAJ: 300 m. zero	-1.5"	6.7"	7.7"	0.0	-14.5"	-48.2"
TRAJ: 385 m. zero	-1.5"	10.5"	15.2"	11.3"	0.0	-29.3"
TRAJ: 500 m. zero	-1.5"	16.3"	26.9"	28.9"	22.6"	0.0
VELOCITY (fps)	2500	2300	2110	1929	1783	1599
ENERGY (ft.-lbs.)	1943	1645	1384	1156	988	794
TRAJ: 100 m. zero	-1.5"	0.0	-6.4"	-22.1"	-44.2"	-89.5"
TRAJ: 200 m. zero	-1.5"	3.2"	0.0	-12.5"	-31.9"	-73.6"
TRAJ: 300 m. zero	-1.5"	7.4"	8.4"	0.0	-15.8"	-52.6"
TRAJ: 385 m. zero	-1.5"	11.5"	16.6"	12.3"	0.0	-32.1"
TRAJ: 500 m. zero	-1.5"	17.9"	29.4"	31.6"	24.7"	0.0
VELOCITY (fps)	2400	2205	2019	1843	1702	1525
ENERGY (ft.-lbs.)	1790	1511	1267	1056	900	723
TRAJ: 100 m. zero	-1.5"	0.0	-7.1"	-24.4"	-48.6"	-98.3"
TRAJ: 200 m. zero	-1.5"	3.5"	0.0	-13.8"	-35.0"	-80.7"
TRAJ: 300 m. zero	-1.5"	8.1"	9.2"	0.0	-17.4"	-57.7"
TRAJ: 385 m. zero	-1.5"	12.6"	18.2"	13.5"	0.0	-35.2"
TRAJ: 500 m. zero	-1.5"	19.7"	32.3"	34.6"	27.1"	0.0
VELOCITY (fps)	2300	2110	1929	1758	1621	1453
ENERGY (ft.-lbs.)	1644	1383	1156	960	817	656
TRAJ: 100 m. zero	-1.5"	0.0	-7.9"	-26.9"	-53.7"	-108.4"
TRAJ: 200 m. zero	-1.5"	3.9"	0.0	-15.1"	-38.5"	-88.8"
TRAJ: 300 m. zero	-1.5"	9.0"	10.1"	0.0	-19.1"	-63.5"
TRAJ: 385 m. zero	-1.5"	13.9"	20.0"	14.9"	0.0	-38.7"
TRAJ: 500 m. zero	-1.5"	21.7"	35.5"	38.1"	29.8"	0.0
VELOCITY (fps)	2200	2014	1838	1673	1543	1383
ENERGY (ft.-lbs.)	1504	1261	1051	870	740	594
TRAJ: 100 m. zero	-1.5"	0.0	-8.8"	-29.9"	-59.4"	-119.9"
TRAJ: 200 m. zero	-1.5"	4.4"	0.0	-16.7"	-42.5"	-98.0"
TRAJ: 300 m. zero	-1.5"	10.0"	11.1"	0.0	-21.1"	-70.1"
TRAJ: 385 m. zero	-1.5"	15.4"	22.1"	16.4"	0.0	-42.8"
TRAJ: 500 m. zero	-1.5"	24.0"	39.2"	42.1"	32.9"	0.0
VELOCITY (fps)	2100	1919	1749	1590	1466	1317
ENERGY (ft.-lbs.)	1371	1145	951	786	668	539
TRAJ: 100 m. zero	-1.5"	0.0	-9.8"	-33.3"	-66.0"	-133.1"
TRAJ: 200 m. zero	-1.5"	4.9"	0.0	-18.5"	-47.1"	-108.6"
TRAJ: 300 m. zero	-1.5"	11.1"	12.4"	0.0	-23.3"	-77.7"
TRAJ: 385 m. zero	-1.5"	17.1"	24.5"	18.2"	0.0	-47.4"
TRAJ: 500 m. zero	-1.5"	26.6"	43.4"	46.6"	36.5"	0.0
VELOCITY (fps)	2000	1825	1661	1509	1392	1254
ENERGY (ft.-lbs.)	1243	1035	857	708	602	489
TRAJ: 100 m. zero	-1.5"	0.0	-11.0"	-37.1"	-73.6"	-148.2"
TRAJ: 200 m. zero	-1.5"	5.5"	0.0	-20.6"	-52.4"	-120.6"
TRAJ: 300 m. zero	-1.5"	12.4"	13.7"	0.0	-25.9"	-86.3"
TRAJ: 385 m. zero	-1.5"	19.1"	27.2"	20.2"	0.0	-52.6"
TRAJ: 500 m. zero	-1.5"	29.6"	48.3"	51.8"	40.5"	0.0
VELOCITY (fps)	1900	1731	1574	1430	1321	1196
ENERGY (ft.-lbs.)	1122	931	770	636	543	444
TRAJ: 100 m. zero	-1.5"	0.0	-12.4"	-41.7"	-82.4"	-165.5"
TRAJ: 200 m. zero	-1.5"	6.2"	0.0	-23.0"	-58.5"	-134.4"
TRAJ: 300 m. zero	-1.5"	13.9"	15.4"	0.0	-28.9"	-96.0"
TRAJ: 385 m. zero	-1.5"	21.4"	30.4"	22.5"	0.0	-58.5"
TRAJ: 500 m. zero	-1.5"	33.1"	53.8"	57.6"	45.0"	0.0
VELOCITY (fps)	1800	1638	1488	1354	1254	1143
ENERGY (ft.-lbs.)	1007	834	688	570	489	406
TRAJ: 100 m. zero	-1.5"	0.0	-14.0"	-46.9"	-92.5"	-185.3"
TRAJ: 200 m. zero	-1.5"	7.0"	0.0	-25.8"	-65.5"	-150.2"
TRAJ: 300 m. zero	-1.5"	15.6"	17.2"	0.0	-32.4"	-107.1"
TRAJ: 385 m. zero	-1.5"	24.0"	34.0"	25.2"	0.0	-65.1"
TRAJ: 500 m. zero	-1.5"	37.1"	60.1"	64.3"	50.1"	0.0

6.5MM CALIBER (.264" Dia.) 140 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .484

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3200	2976	2762	2559	2393	2179
ENERGY (ft.-lbs.)	3183	2752	2372	2035	1780	1475
TRAJ: 100 m. zero	-1.5"	0.0	-3.2"	-11.9"	-24.2"	-49.3"
TRAJ: 200 m. zero	-1.5"	1.6"	0.0	-7.1"	-18.0"	-41.3"
TRAJ: 300 m. zero	-1.5"	4.0"	4.7"	0.0	-9.0"	-29.6"
TRAJ: 385 m. zero	-1.5"	6.3"	9.4"	7.0"	0.0	-17.9"
TRAJ: 500 m. zero	-1.5"	9.9"	16.5"	17.7"	13.8"	0.0
VELOCITY (fps)	3100	2881	2672	2473	2310	2100
ENERGY (ft.-lbs.)	2987	2579	2219	1900	1659	1370
TRAJ: 100 m. zero	-1.5"	0.0	-3.5"	-12.9"	-26.1"	-53.2"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.6"	-19.3"	-44.4"
TRAJ: 300 m. zero	-1.5"	4.3"	5.1"	0.0	-9.6"	-31.7"
TRAJ: 385 m. zero	-1.5"	6.8"	10.1"	7.5"	0.0	-19.3"
TRAJ: 500 m. zero	-1.5"	10.6"	17.8"	19.0"	14.8"	0.0
VELOCITY (fps)	3000	2786	2581	2386	2226	2020
ENERGY (ft.-lbs.)	2797	2412	2071	1769	1541	1269
TRAJ: 100 m. zero	-1.5"	0.0	-3.9"	-14.0"	-28.3"	-57.4"
TRAJ: 200 m. zero	-1.5"	1.9"	0.0	-8.2"	-20.8"	-47.8"
TRAJ: 300 m. zero	-1.5"	4.7"	5.5"	0.0	-10.3"	-34.1"
TRAJ: 385 m. zero	-1.5"	7.3"	10.8"	8.1"	0.0	-20.7"
TRAJ: 500 m. zero	-1.5"	11.5"	19.1"	20.5"	16.0"	0.0
VELOCITY (fps)	2900	2690	2490	2299	2143	1941
ENERGY (ft.-lbs.)	2614	2250	1927	1642	1427	1171
TRAJ: 100 m. zero	-1.5"	0.0	-4.3"	-15.2"	-30.7"	-62.2"
TRAJ: 200 m. zero	-1.5"	2.1"	0.0	-8.8"	-22.5"	-51.6"
TRAJ: 300 m. zero	-1.5"	5.1"	5.9"	0.0	-11.2"	-36.9"
TRAJ: 385 m. zero	-1.5"	8.0"	11.7"	8.7"	0.0	-22.4"
TRAJ: 500 m. zero	-1.5"	12.4"	20.6"	22.1"	17.2"	0.0
VELOCITY (fps)	2800	2595	2399	2211	2059	1862
ENERGY (ft.-lbs.)	2437	2093	1789	1520	1317	1078
TRAJ: 100 m. zero	-1.5"	0.0	-4.7"	-16.6"	-33.4"	-67.6"
TRAJ: 200 m. zero	-1.5"	2.3"	0.0	-9.6"	-24.4"	-55.9"
TRAJ: 300 m. zero	-1.5"	5.5"	6.4"	0.0	-12.1"	-39.9"
TRAJ: 385 m. zero	-1.5"	8.7"	12.7"	9.4"	0.0	-24.2"
TRAJ: 500 m. zero	-1.5"	13.5"	22.3"	23.9"	18.7"	0.0
VELOCITY (fps)	2700	2499	2308	2124	1975	1784
ENERGY (ft.-lbs.)	2266	1942	1655	1402	1212	989
TRAJ: 100 m. zero	-1.5"	0.0	-5.2"	-18.2"	-36.4"	-73.6"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.4"	-26.4"	-60.7"
TRAJ: 300 m. zero	-1.5"	6.1"	6.9"	0.0	-13.1"	-43.3"
TRAJ: 385 m. zero	-1.5"	9.5"	13.7"	10.2"	0.0	-26.3"
TRAJ: 500 m. zero	-1.5"	14.7"	24.3"	26.0"	20.3"	0.0
VELOCITY (fps)	2600	2404	2216	2037	1891	1706
ENERGY (ft.-lbs.)	2101	1796	1526	1289	1112	904
TRAJ: 100 m. zero	-1.5"	0.0	-5.7"	-19.9"	-39.8"	-80.3"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.3"	-28.8"	-66.1"
TRAJ: 300 m. zero	-1.5"	6.6"	7.6"	0.0	-14.2"	-47.2"
TRAJ: 385 m. zero	-1.5"	10.3"	15.0"	11.1"	0.0	-28.7"
TRAJ: 500 m. zero	-1.5"	16.1"	26.4"	28.3"	22.1"	0.0
VELOCITY (fps)	2500	2308	2125	1950	1808	1629
ENERGY (ft.-lbs.)	1943	1656	1403	1182	1016	825
TRAJ: 100 m. zero	-1.5"	0.0	-6.3"	-21.9"	-43.6"	-88.0"
TRAJ: 200 m. zero	-1.5"	3.2"	0.0	-12.4"	-31.5"	-72.2"
TRAJ: 300 m. zero	-1.5"	7.3"	8.3"	0.0	-15.6"	-51.5"
TRAJ: 385 m. zero	-1.5"	11.3"	16.3"	12.1"	0.0	-31.3"
TRAJ: 500 m. zero	-1.5"	17.6"	28.9"	30.9"	24.1"	0.0
VELOCITY (fps)	2400	2212	2033	1863	1726	1554
ENERGY (ft.-lbs.)	1790	1521	1285	1079	926	750
TRAJ: 100 m. zero	-1.5"	0.0	-7.0"	-24.1"	-48.0"	-96.7"
TRAJ: 200 m. zero	-1.5"	3.5"	0.0	-13.6"	-34.5"	-79.2"
TRAJ: 300 m. zero	-1.5"	8.0"	9.1"	0.0	-17.1"	-56.5"
TRAJ: 385 m. zero	-1.5"	12.5"	17.9"	13.3"	0.0	-34.4"
TRAJ: 500 m. zero	-1.5"	19.3"	31.7"	33.9"	26.5"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2300	2117	1942	1777	1645	1480
ENERGY (ft.-lbs.)	1644	1393	1173	982	841	681
TRAJ: 100 m. zero	-1.5"	0.0	-7.8"	-26.6"	-52.9"	-106.6"
TRAJ: 200 m. zero	-1.5"	3.9"	0.0	-14.9"	-37.9"	-87.1"
TRAJ: 300 m. zero	-1.5"	8.9"	10.0"	0.0	-18.7"	-62.2"
TRAJ: 385 m. zero	-1.5"	13.7"	19.7"	14.6"	0.0	-37.8"
TRAJ: 500 m. zero	-1.5"	21.3"	34.8"	37.3"	29.1"	0.0
VELOCITY (fps)	2200	2021	1852	1692	1565	1409
ENERGY (ft.-lbs.)	1504	1270	1066	890	762	617
TRAJ: 100 m. zero	-1.5"	0.0	-8.7"	-29.5"	-58.6"	-117.9"
TRAJ: 200 m. zero	-1.5"	4.3"	0.0	-16.5"	-41.9"	-96.1"
TRAJ: 300 m. zero	-1.5"	9.8"	11.0"	0.0	-20.7"	-68.6"
TRAJ: 385 m. zero	-1.5"	15.2"	21.7"	16.1"	0.0	-41.8"
TRAJ: 500 m. zero	-1.5"	23.6"	38.5"	41.2"	32.2"	0.0
VELOCITY (fps)	2100	1926	1762	1609	1488	1340
ENERGY (ft.-lbs.)	1371	1153	965	804	688	558
TRAJ: 100 m. zero	-1.5"	0.0	-9.7"	-32.9"	-65.1"	-130.8"
TRAJ: 200 m. zero	-1.5"	4.9"	0.0	-18.3"	-46.4"	-106.5"
TRAJ: 300 m. zero	-1.5"	11.0"	12.2"	0.0	-22.9"	-76.0"
TRAJ: 385 m. zero	-1.5"	16.9"	24.1"	17.9"	0.0	-46.2"
TRAJ: 500 m. zero	-1.5"	26.2"	42.6"	45.6"	35.6"	0.0
VELOCITY (fps)	2000	1832	1673	1526	1412	1276
ENERGY (ft.-lbs.)	1243	1043	870	724	620	506
TRAJ: 100 m. zero	-1.5"	0.0	-10.9"	-36.7"	-72.6"	-145.6"
TRAJ: 200 m. zero	-1.5"	5.5"	0.0	-20.3"	-51.6"	-118.3"
TRAJ: 300 m. zero	-1.5"	12.2"	13.6"	0.0	-25.5"	-84.4"
TRAJ: 385 m. zero	-1.5"	18.9"	26.8"	19.8"	0.0	-51.3"
TRAJ: 500 m. zero	-1.5"	29.1"	47.3"	50.7"	39.5"	0.0
VELOCITY (fps)	1900	1737	1586	1446	1340	1215
ENERGY (ft.-lbs.)	1122	938	781	650	558	459
TRAJ: 100 m. zero	-1.5"	0.0	-12.3"	-41.2"	-81.3"	-162.7"
TRAJ: 200 m. zero	-1.5"	6.2"	0.0	-22.7"	-57.6"	-131.9"
TRAJ: 300 m. zero	-1.5"	13.7"	15.2"	0.0	-28.4"	-94.0"
TRAJ: 385 m. zero	-1.5"	21.1"	29.9"	22.1"	0.0	-57.1"
TRAJ: 500 m. zero	-1.5"	32.5"	52.8"	56.4"	44.0"	0.0
VELOCITY (fps)	1800	1644	1499	1369	1271	1160
ENERGY (ft.-lbs.)	1007	840	699	582	502	418
TRAJ: 100 m. zero	-1.5"	0.0	-13.9"	-46.4"	-91.3"	-182.2"
TRAJ: 200 m. zero	-1.5"	7.0"	0.0	-25.5"	-64.5"	-147.4"
TRAJ: 300 m. zero	-1.5"	15.5"	17.0"	0.0	-31.8"	-104.9"
TRAJ: 385 m. zero	-1.5"	23.7"	33.5"	24.8"	0.0	-63.7"
TRAJ: 500 m. zero	-1.5"	36.4"	59.0"	62.9"	49.0"	0.0

270 CALIBER (.277" Dia.) 130 GRAIN SPIRE POINT
SECTIONAL DENSITY: .242 BALLISTIC COEFFICIENT: .409

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3400	3123	2864	2619	2420	2166
ENERGY (ft.-lbs.)	3336	2815	2367	1979	1691	1354
TRAJ: 100 m. zero	-1.5"	0.0	-2.8"	-10.6"	-22.0"	-45.8"
TRAJ: 200 m. zero	-1.5"	1.4"	0.0	-6.5"	-16.7"	-38.9"
TRAJ: 300 m. zero	-1.5"	3.5"	4.3"	0.0	-8.4"	-28.1"
TRAJ: 385 m. zero	-1.5"	5.7"	8.7"	6.5"	0.0	-17.2"
TRAJ: 500 m. zero	-1.5"	9.2"	15.5"	16.8"	13.2"	0.0
VELOCITY (fps)	3300	3030	2775	2535	2341	2091
ENERGY (ft.-lbs.)	3143	2649	2223	1855	1581	1262
TRAJ: 100 m. zero	-1.5"	0.0	-3.0"	-11.5"	-23.7"	-49.2"
TRAJ: 200 m. zero	-1.5"	1.5"	0.0	-6.9"	-17.9"	-41.6"
TRAJ: 300 m. zero	-1.5"	3.8"	4.6"	0.0	-9.0"	-30.0"
TRAJ: 385 m. zero	-1.5"	6.2"	9.3"	7.0"	0.0	-18.4"
TRAJ: 500 m. zero	-1.5"	9.8"	16.6"	18.0"	14.1"	0.0
VELOCITY (fps)	3200	2936	2687	2451	2260	2016
ENERGY (ft.-lbs.)	2955	2487	2083	1734	1474	1172
TRAJ: 100 m. zero	-1.5"	0.0	-3.3"	-12.4"	-25.6"	-52.9"
TRAJ: 200 m. zero	-1.5"	1.7"	0.0	-7.4"	-19.2"	-44.6"
TRAJ: 300 m. zero	-1.5"	4.1"	5.0"	0.0	-9.6"	-32.2"
TRAJ: 385 m. zero	-1.5"	6.6"	10.0"	7.5"	0.0	-19.7"
TRAJ: 500 m. zero	-1.5"	10.6"	17.8"	19.3"	15.2"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3100	2842	2598	2367	2180	1940
ENERGY (ft.-lbs.)	2774	2331	1948	1617	1371	1086
TRAJ: 100 m. zero	-1.5"	0.0	-3.7"	-13.5"	-27.6"	-57.1"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-8.0"	-20.6"	-47.9"
TRAJ: 300 m. zero	-1.5"	4.5"	5.3"	0.0	-10.3"	-34.6"
TRAJ: 385 m. zero	-1.5"	7.2"	10.7"	8.0"	0.0	-21.2"
TRAJ: 500 m. zero	-1.5"	11.4"	19.2"	20.8"	16.3"	0.0
VELOCITY (fps)	3000	2747	2509	2282	2099	1865
ENERGY (ft.-lbs.)	2597	2179	1816	1503	1271	1003
TRAJ: 100 m. zero	-1.5"	0.0	-4.0"	-14.7"	-29.9"	-61.7"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.6"	-22.2"	-51.7"
TRAJ: 300 m. zero	-1.5"	4.9"	5.8"	0.0	-11.1"	-37.3"
TRAJ: 385 m. zero	-1.5"	7.8"	11.5"	8.7"	0.0	-22.8"
TRAJ: 500 m. zero	-1.5"	12.3"	20.7"	22.4"	17.6"	0.0
VELOCITY (fps)	2900	2653	2419	2197	2018	1789
ENERGY (ft.-lbs.)	2427	2031	1689	1393	1175	924
TRAJ: 100 m. zero	-1.5"	0.0	-4.4"	-16.0"	-32.5"	-66.9"
TRAJ: 200 m. zero	-1.5"	2.2"	0.0	-9.3"	-24.0"	-55.9"
TRAJ: 300 m. zero	-1.5"	5.3"	6.2"	0.0	-12.0"	-40.3"
TRAJ: 385 m. zero	-1.5"	8.4"	12.5"	9.4"	0.0	-24.7"
TRAJ: 500 m. zero	-1.5"	13.4"	22.3"	24.2"	19.0"	0.0
VELOCITY (fps)	2800	2558	2329	2112	1937	1715
ENERGY (ft.-lbs.)	2263	1889	1566	1287	1082	849
TRAJ: 100 m. zero	-1.5"	0.0	-4.9"	-17.4"	-35.4"	-72.7"
TRAJ: 200 m. zero	-1.5"	2.4"	0.0	-10.1"	-26.0"	-60.5"
TRAJ: 300 m. zero	-1.5"	5.8"	6.7"	0.0	-13.0"	-43.7"
TRAJ: 385 m. zero	-1.5"	9.2"	13.5"	10.1"	0.0	-26.8"
TRAJ: 500 m. zero	-1.5"	14.5"	24.2"	26.2"	20.6"	0.0

270 CALIBER (.277" Dia.) 140 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .261 BALLISTIC COEFFICIENT: .486

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3300	3071	2854	2648	2479	2261
ENERGY (ft.-lbs.)	3385	2932	2532	2179	1910	1589
TRAJ: 100 m. zero	-1.5"	0.0	-2.9"	-10.9"	-22.4"	-45.8"
TRAJ: 200 m. zero	-1.5"	1.5"	0.0	-6.6"	-16.8"	-38.5"
TRAJ: 300 m. zero	-1.5"	3.6"	4.4"	0.0	-8.4"	-27.6"
TRAJ: 385 m. zero	-1.5"	5.8"	8.7"	6.5"	0.0	-16.7"
TRAJ: 500 m. zero	-1.5"	9.2"	15.4"	16.5"	12.9"	0.0
VELOCITY (fps)	3200	2977	2764	2562	2396	2182
ENERGY (ft.-lbs.)	3183	2754	2375	2039	1785	1480
TRAJ: 100 m. zero	-1.5"	0.0	-3.2"	-11.8"	-24.1"	-49.2"
TRAJ: 200 m. zero	-1.5"	1.6"	0.0	-7.0"	-18.0"	-41.3"
TRAJ: 300 m. zero	-1.5"	3.9"	4.7"	0.0	-8.9"	-29.5"
TRAJ: 385 m. zero	-1.5"	6.3"	9.3"	7.0"	0.0	-17.9"
TRAJ: 500 m. zero	-1.5"	9.8"	16.5"	17.7"	13.8"	0.0
VELOCITY (fps)	3100	2882	2674	2475	2313	2103
ENERGY (ft.-lbs.)	2987	2581	2222	1904	1663	1375
TRAJ: 100 m. zero	-1.5"	0.0	-3.5"	-12.9"	-26.1"	-53.1"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.6"	-19.3"	-44.3"
TRAJ: 300 m. zero	-1.5"	4.3"	5.1"	0.0	-9.6"	-31.7"
TRAJ: 385 m. zero	-1.5"	6.8"	10.0"	7.5"	0.0	-19.2"
TRAJ: 500 m. zero	-1.5"	10.6"	17.7"	19.0"	14.8"	0.0
VELOCITY (fps)	3000	2786	2583	2388	2229	2024
ENERGY (ft.-lbs.)	2797	2413	2073	1773	1545	1273
TRAJ: 100 m. zero	-1.5"	0.0	-3.9"	-14.0"	-28.2"	-57.4"
TRAJ: 200 m. zero	-1.5"	1.9"	0.0	-8.2"	-20.8"	-47.7"
TRAJ: 300 m. zero	-1.5"	4.7"	5.4"	0.0	-10.3"	-34.1"
TRAJ: 385 m. zero	-1.5"	7.3"	10.8"	8.0"	0.0	-20.7"
TRAJ: 500 m. zero	-1.5"	11.5"	19.1"	20.5"	15.9"	0.0
VELOCITY (fps)	2900	2691	2492	2301	2145	1945
ENERGY (ft.-lbs.)	2614	2251	1930	1646	1431	1175
TRAJ: 100 m. zero	-1.5"	0.0	-4.2"	-15.2"	-30.6"	-62.1"
TRAJ: 200 m. zero	-1.5"	2.1"	0.0	-8.8"	-22.5"	-51.5"
TRAJ: 300 m. zero	-1.5"	5.1"	5.9"	0.0	-11.1"	-36.8"
TRAJ: 385 m. zero	-1.5"	8.0"	11.7"	8.7"	0.0	-22.3"
TRAJ: 500 m. zero	-1.5"	12.4"	20.6"	22.1"	17.2"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2800	2596	2401	2214	2061	1866
ENERGY (ft.-lbs.)	2437	2094	1791	1523	1321	1082
TRAJ: 100 m. zero	-1.5"	0.0	-4.7"	-16.6"	-33.3"	-67.5"
TRAJ: 200 m. zero	-1.5"	2.3"	0.0	-9.6"	-24.3"	-55.8"
TRAJ: 300 m. zero	-1.5"	5.5"	6.4"	0.0	-12.0"	-39.8"
TRAJ: 385 m. zero	-1.5"	8.7"	12.6"	9.4"	0.0	-24.2"
TRAJ: 500 m. zero	-1.5"	13.5"	22.3"	23.9"	18.6"	0.0
VELOCITY (fps)	2700	2500	2309	2126	1978	1787
ENERGY (ft.-lbs.)	2266	1943	1657	1405	1216	993
TRAJ: 100 m. zero	-1.5"	0.0	-5.2"	-18.1"	-36.3"	-73.4"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.4"	-26.4"	-60.5"
TRAJ: 300 m. zero	-1.5"	6.0"	6.9"	0.0	-13.1"	-43.2"
TRAJ: 385 m. zero	-1.5"	9.4"	13.7"	10.2"	0.0	-26.3"
TRAJ: 500 m. zero	-1.5"	14.7"	24.2"	25.9"	20.2"	0.0
VELOCITY (fps)	2600	2405	2218	2039	1894	1709
ENERGY (ft.-lbs.)	2101	1797	1529	1292	1115	908
TRAJ: 100 m. zero	-1.5"	0.0	-5.7"	-19.9"	-39.7"	-80.2"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.3"	-28.8"	-65.9"
TRAJ: 300 m. zero	-1.5"	6.6"	7.5"	0.0	-14.2"	-47.1"
TRAJ: 385 m. zero	-1.5"	10.3"	14.9"	11.1"	0.0	-28.6"
TRAJ: 500 m. zero	-1.5"	16.0"	26.4"	28.2"	22.0"	0.0
VELOCITY (fps)	2500	2309	2126	1952	1811	1632
ENERGY (ft.-lbs.)	1943	1657	1405	1184	1019	828
TRAJ: 100 m. zero	-1.5"	0.0	-6.3"	-21.8"	-43.6"	-87.8"
TRAJ: 200 m. zero	-1.5"	3.2"	0.0	-12.4"	-31.4"	-72.1"
TRAJ: 300 m. zero	-1.5"	7.3"	8.2"	0.0	-15.5"	-51.4"
TRAJ: 385 m. zero	-1.5"	11.3"	16.3"	12.1"	0.0	-31.3"
TRAJ: 500 m. zero	-1.5"	17.6"	28.8"	30.9"	24.1"	0.0

270 CALIBER (.277" Dia.) 150 GRAIN SPIRE POINT
SECTIONAL DENSITY: .279 BALLISTIC COEFFICIENT: .462

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3200	2965	2743	2531	2358	2136
ENERGY (ft.-lbs.)	3410	2928	2505	2133	1852	1519
TRAJ: 100 m. zero	-1.5"	0.0	-3.2"	-12.0"	-24.5"	-50.2"
TRAJ: 200 m. zero	-1.5"	1.6"	0.0	-7.2"	-18.3"	-42.1"
TRAJ: 300 m. zero	-1.5"	4.0"	4.8"	0.0	-9.1"	-30.2"
TRAJ: 385 m. zero	-1.5"	6.4"	9.5"	7.1"	0.0	-18.4"
TRAJ: 500 m. zero	-1.5"	10.0"	16.9"	18.1"	14.1"	0.0
VELOCITY (fps)	3100	2871	2653	2445	2276	2057
ENERGY (ft.-lbs.)	3200	2744	2343	1991	1725	1410
TRAJ: 100 m. zero	-1.5"	0.0	-3.6"	-13.0"	-26.5"	-54.1"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.7"	-19.7"	-45.3"
TRAJ: 300 m. zero	-1.5"	4.3"	5.1"	0.0	-9.8"	-32.4"
TRAJ: 385 m. zero	-1.5"	6.9"	10.2"	7.6"	0.0	-19.7"
TRAJ: 500 m. zero	-1.5"	10.8"	18.1"	19.5"	15.2"	0.0
VELOCITY (fps)	3000	2776	2562	2359	2193	1979
ENERGY (ft.-lbs.)	2997	2566	2186	1853	1601	1305
TRAJ: 100 m. zero	-1.5"	0.0	-3.9"	-14.2"	-28.7"	-58.5"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.3"	-21.2"	-48.8"
TRAJ: 300 m. zero	-1.5"	4.7"	5.5"	0.0	-10.5"	-34.9"
TRAJ: 385 m. zero	-1.5"	7.5"	11.0"	8.2"	0.0	-21.2"
TRAJ: 500 m. zero	-1.5"	11.7"	19.5"	21.0"	16.4"	0.0
VELOCITY (fps)	2900	2681	2472	2272	2110	1901
ENERGY (ft.-lbs.)	2801	2393	2034	1719	1482	1203
TRAJ: 100 m. zero	-1.5"	0.0	-4.3"	-15.4"	-31.1"	-63.4"
TRAJ: 200 m. zero	-1.5"	2.1"	0.0	-9.0"	-22.9"	-52.7"
TRAJ: 300 m. zero	-1.5"	5.1"	6.0"	0.0	-11.4"	-37.7"
TRAJ: 385 m. zero	-1.5"	8.1"	11.9"	8.9"	0.0	-22.9"
TRAJ: 500 m. zero	-1.5"	12.7"	21.1"	22.6"	17.7"	0.0
VELOCITY (fps)	2800	2585	2381	2185	2027	1823
ENERGY (ft.-lbs.)	2611	2226	1887	1590	1368	1107
TRAJ: 100 m. zero	-1.5"	0.0	-4.7"	-16.8"	-33.9"	-68.9"
TRAJ: 200 m. zero	-1.5"	2.4"	0.0	-9.7"	-24.8"	-57.0"
TRAJ: 300 m. zero	-1.5"	5.6"	6.5"	0.0	-12.3"	-40.8"
TRAJ: 385 m. zero	-1.5"	8.8"	12.9"	9.6"	0.0	-24.9"
TRAJ: 500 m. zero	-1.5"	13.8"	22.8"	24.5"	19.1"	0.0

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RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2700	2490	2290	2099	1944	1746
ENERGY (ft.-lbs.)	2428	2065	1746	1467	1258	1015
TRAJ: 100 m. zero	-1.5"	0.0	-5.2"	-18.4"	-36.9"	-75.0"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.6"	-26.9"	-61.9"
TRAJ: 300 m. zero	-1.5"	6.1"	7.0"	0.0	-13.4"	-44.4"
TRAJ: 385 m. zero	-1.5"	9.6"	14.0"	10.4"	0.0	-27.0"
TRAJ: 500 m. zero	-1.5"	15.0"	24.8"	26.6"	20.8"	0.0
VELOCITY (fps)	2600	2395	2199	2012	1861	1669
ENERGY (ft.-lbs.)	2251	1910	1610	1348	1153	928
TRAJ: 100 m. zero	-1.5"	0.0	-5.8"	-20.1"	-40.4"	-81.9"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.5"	-29.3"	-67.5"
TRAJ: 300 m. zero	-1.5"	6.7"	7.7"	0.0	-14.5"	-48.3"
TRAJ: 385 m. zero	-1.5"	10.5"	15.2"	11.3"	0.0	-29.4"
TRAJ: 500 m. zero	-1.5"	16.4"	27.0"	29.0"	22.7"	0.0
VELOCITY (fps)	2500	2299	2108	1925	1779	1594
ENERGY (ft.-lbs.)	2081	1760	1479	1235	1054	846
TRAJ: 100 m. zero	-1.5"	0.0	-6.4"	-22.1"	-44.3"	-89.7"
TRAJ: 200 m. zero	-1.5"	3.2"	0.0	-12.6"	-32.0"	-73.8"
TRAJ: 300 m. zero	-1.5"	7.4"	8.4"	0.0	-15.9"	-52.8"
TRAJ: 385 m. zero	-1.5"	11.5"	16.6"	12.4"	0.0	-32.2"
TRAJ: 500 m. zero	-1.5"	17.9"	29.5"	31.7"	24.8"	0.0

7MM CALIBER (.284" Dia.) 139 GRAIN SPIRE POINT
SECTIONAL DENSITY: .246 BALLISTIC COEFFICIENT: .392

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3400	3112	2842	2588	2383	2120
ENERGY (ft.-lbs.)	3567	2988	2492	2066	1752	1387
TRAJ: 100 m. zero	-1.5"	0.0	-2.8"	-10.8"	-22.4"	-46.7"
TRAJ: 200 m. zero	-1.5"	1.4"	0.0	-6.6"	-17.0"	-39.7"
TRAJ: 300 m. zero	-1.5"	3.6"	4.4"	0.0	-8.6"	-28.7"
TRAJ: 385 m. zero	-1.5"	5.8"	8.8"	6.7"	0.0	-17.6"
TRAJ: 500 m. zero	-1.5"	9.3"	15.9"	17.2"	13.6"	0.0
VELOCITY (fps)	3300	3018	2754	2505	2303	2046
ENERGY (ft.-lbs.)	3361	2811	2340	1936	1637	1291
TRAJ: 100 m. zero	-1.5"	0.0	-3.1"	-11.6"	-24.1"	-50.2"
TRAJ: 200 m. zero	-1.5"	1.5"	0.0	-7.0"	-18.2"	-42.5"
TRAJ: 300 m. zero	-1.5"	3.9"	4.7"	0.0	-9.2"	-30.8"
TRAJ: 385 m. zero	-1.5"	6.3"	9.4"	7.1"	0.0	-18.9"
TRAJ: 500 m. zero	-1.5"	10.0"	17.0"	18.5"	14.5"	0.0
VELOCITY (fps)	3200	2925	2666	2421	2224	1971
ENERGY (ft.-lbs.)	3160	2640	2193	1809	1526	1199
TRAJ: 100 m. zero	-1.5"	0.0	-3.4"	-12.6"	-26.0"	-54.0"
TRAJ: 200 m. zero	-1.5"	1.7"	0.0	-7.5"	-19.5"	-45.6"
TRAJ: 300 m. zero	-1.5"	4.2"	5.0"	0.0	-9.8"	-33.0"
TRAJ: 385 m. zero	-1.5"	6.8"	10.1"	7.6"	0.0	-20.2"
TRAJ: 500 m. zero	-1.5"	10.8"	18.2"	19.8"	15.6"	0.0
VELOCITY (fps)	3100	2831	2577	2337	2144	1897
ENERGY (ft.-lbs.)	2966	2473	2050	1686	1418	1110
TRAJ: 100 m. zero	-1.5"	0.0	-3.7"	-13.7"	-28.1"	-58.3"
TRAJ: 200 m. zero	-1.5"	1.9"	0.0	-8.1"	-21.0"	-49.0"
TRAJ: 300 m. zero	-1.5"	4.6"	5.4"	0.0	-10.5"	-35.5"
TRAJ: 385 m. zero	-1.5"	7.3"	10.9"	8.2"	0.0	-21.8"
TRAJ: 500 m. zero	-1.5"	11.7"	19.6"	21.3"	16.8"	0.0
VELOCITY (fps)	3000	2737	2488	2253	2064	1822
ENERGY (ft.-lbs.)	2777	2311	1911	1567	1314	1025
TRAJ: 100 m. zero	-1.5"	0.0	-4.1"	-14.9"	-30.4"	-63.0"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.8"	-22.6"	-52.8"
TRAJ: 300 m. zero	-1.5"	5.0"	5.8"	0.0	-11.4"	-38.2"
TRAJ: 385 m. zero	-1.5"	7.9"	11.7"	8.8"	0.0	-23.5"
TRAJ: 500 m. zero	-1.5"	12.6"	21.1"	22.9"	18.1"	0.0
VELOCITY (fps)	2900	2643	2399	2169	1983	1748
ENERGY (ft.-lbs.)	2595	2155	1776	1452	1214	943
TRAJ: 100 m. zero	-1.5"	0.0	-4.5"	-16.2"	-33.0"	-68.3"
TRAJ: 200 m. zero	-1.5"	2.2"	0.0	-9.5"	-24.4"	-57.1"
TRAJ: 300 m. zero	-1.5"	5.4"	6.3"	0.0	-12.3"	-41.3"
TRAJ: 385 m. zero	-1.5"	8.6"	12.7"	9.6"	0.0	-25.4"
TRAJ: 500 m. zero	-1.5"	13.7"	22.9"	24.8"	19.6"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2800	2548	2310	2084	1903	1675
ENERGY (ft.-lbs.)	2419	2004	1647	1341	1118	866
TRAJ: 100 m. zero	-1.5"	0.0	-4.9"	-17.7"	-36.0"	-74.3"
TRAJ: 200 m. zero	-1.5"	2.5"	0.0	-10.3"	-26.5"	-62.0"
TRAJ: 300 m. zero	-1.5"	5.9"	6.9"	0.0	-13.3"	-44.8"
TRAJ: 385 m. zero	-1.5"	9.3"	13.8"	10.4"	0.0	-27.6"
TRAJ: 500 m. zero	-1.5"	14.9"	24.8"	26.9"	21.2"	0.0
VELOCITY (fps)	2700	2454	2220	2000	1824	1603
ENERGY (ft.-lbs.)	2250	1858	1521	1234	1026	793
TRAJ: 100 m. zero	-1.5"	0.0	-5.4"	-19.3"	-39.2"	-81.0"
TRAJ: 200 m. zero	-1.5"	2.7"	0.0	-11.2"	-28.8"	-67.4"
TRAJ: 300 m. zero	-1.5"	6.4"	7.4"	0.0	-14.4"	-48.8"
TRAJ: 385 m. zero	-1.5"	10.2"	15.0"	11.3"	0.0	-30.0"
TRAJ: 500 m. zero	-1.5"	16.2"	27.0"	29.3"	23.1"	0.0
VELOCITY (fps)	2600	2359	2131	1916	1744	1532
ENERGY (ft.-lbs.)	2086	1717	1401	1133	939	724
TRAJ: 100 m. zero	-1.5"	0.0	-6.0"	-21.2"	-42.9"	-88.5"
TRAJ: 200 m. zero	-1.5"	3.0"	0.0	-12.2"	-31.4"	-73.5"
TRAJ: 300 m. zero	-1.5"	7.1"	8.1"	0.0	-15.7"	-53.2"
TRAJ: 385 m. zero	-1.5"	11.2"	16.3"	12.3"	0.0	-32.8"
TRAJ: 500 m. zero	-1.5"	17.7"	29.4"	31.9"	25.2"	0.0

7MM CALIBER (.284" Dia.) 139 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .246 BALLISTIC COEFFICIENT: .453

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3400	3149	2913	2689	2506	2272
ENERGY (ft.-lbs.)	3567	3061	2618	2231	1939	1592
TRAJ: 100 m. zero	-1.5"	0.0	-2.7"	-10.3"	-21.3"	-43.8"
TRAJ: 200 m. zero	-1.5"	1.3"	0.0	-6.3"	-16.1"	-37.1"
TRAJ: 300 m. zero	-1.5"	3.4"	4.2"	0.0	-8.0"	-26.6"
TRAJ: 385 m. zero	-1.5"	5.5"	8.3"	6.3"	0.0	-16.2"
TRAJ: 500 m. zero	-1.5"	8.8"	14.8"	16.0"	12.5"	0.0
VELOCITY (fps)	3300	3055	2824	2604	2425	2194
ENERGY (ft.-lbs.)	3361	2880	2460	2092	1815	1486
TRAJ: 100 m. zero	-1.5"	0.0	-3.0"	-11.1"	-22.9"	-47.0"
TRAJ: 200 m. zero	-1.5"	1.5"	0.0	-6.7"	-17.2"	-39.6"
TRAJ: 300 m. zero	-1.5"	3.7"	4.5"	0.0	-8.6"	-28.5"
TRAJ: 385 m. zero	-1.5"	5.9"	8.9"	6.7"	0.0	-17.3"
TRAJ: 500 m. zero	-1.5"	9.4"	15.9"	17.1"	13.3"	0.0
VELOCITY (fps)	3200	2961	2734	2518	2343	2117
ENERGY (ft.-lbs.)	3160	2705	2307	1957	1694	1383
TRAJ: 100 m. zero	-1.5"	0.0	-3.2"	-12.1"	-24.7"	-50.6"
TRAJ: 200 m. zero	-1.5"	1.6"	0.0	-7.2"	-18.4"	-42.5"
TRAJ: 300 m. zero	-1.5"	4.0"	4.8"	0.0	-9.2"	-30.5"
TRAJ: 385 m. zero	-1.5"	6.4"	9.6"	7.2"	0.0	-18.6"
TRAJ: 500 m. zero	-1.5"	10.1"	17.0"	18.3"	14.3"	0.0
VELOCITY (fps)	3100	2866	2644	2433	2261	2039
ENERGY (ft.-lbs.)	2966	2535	2158	1826	1577	1283
TRAJ: 100 m. zero	-1.5"	0.0	-3.6"	-13.1"	-26.7"	-54.6"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.7"	-19.8"	-45.7"
TRAJ: 300 m. zero	-1.5"	4.4"	5.2"	0.0	-9.9"	-32.8"
TRAJ: 385 m. zero	-1.5"	6.9"	10.3"	7.7"	0.0	-19.9"
TRAJ: 500 m. zero	-1.5"	10.9"	18.3"	19.7"	15.4"	0.0
VELOCITY (fps)	3000	2771	2554	2347	2178	1961
ENERGY (ft.-lbs.)	2777	2370	2013	1700	1464	1187
TRAJ: 100 m. zero	-1.5"	0.0	-3.9"	-14.2"	-28.9"	-59.0"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.3"	-21.3"	-49.2"
TRAJ: 300 m. zero	-1.5"	4.7"	5.6"	0.0	-10.6"	-35.3"
TRAJ: 385 m. zero	-1.5"	7.5"	11.1"	8.3"	0.0	-21.5"
TRAJ: 500 m. zero	-1.5"	11.8"	19.7"	21.2"	16.5"	0.0
VELOCITY (fps)	2900	2676	2463	2260	2095	1884
ENERGY (ft.-lbs.)	2595	2210	1873	1577	1355	1095
TRAJ: 100 m. zero	-1.5"	0.0	-4.3"	-15.5"	-31.3"	-63.9"
TRAJ: 200 m. zero	-1.5"	2.2"	0.0	-9.0"	-23.0"	-53.1"
TRAJ: 300 m. zero	-1.5"	5.2"	6.0"	0.0	-11.5"	-38.1"
TRAJ: 385 m. zero	-1.5"	8.1"	12.0"	8.9"	0.0	-23.2"
TRAJ: 500 m. zero	-1.5"	12.8"	21.3"	22.9"	17.9"	0.0

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RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2800	2581	2373	2174	2013	1806
ENERGY (ft.-lbs.)	2419	2056	1737	1459	1250	1007
TRAJ: 100 m. zero	-1.5"	0.0	-4.8"	-16.9"	-34.1"	-69.4"
TRAJ: 200 m. zero	-1.5"	2.4"	0.0	-9.8"	-25.0"	-57.5"
TRAJ: 300 m. zero	-1.5"	5.6"	6.5"	0.0	-12.4"	-41.3"
TRAJ: 385 m. zero	-1.5"	8.9"	13.0"	9.7"	0.0	-25.1"
TRAJ: 500 m. zero	-1.5"	13.9"	23.0"	24.8"	19.4"	0.0
VELOCITY (fps)	2700	2486	2282	2087	1930	1729
ENERGY (ft.-lbs.)	2250	1907	1607	1345	1149	923
TRAJ: 100 m. zero	-1.5"	0.0	-5.2"	-18.5"	-37.2"	-75.6"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.6"	-27.1"	-62.5"
TRAJ: 300 m. zero	-1.5"	6.2"	7.1"	0.0	-13.5"	-44.8"
TRAJ: 385 m. zero	-1.5"	9.7"	14.1"	10.5"	0.0	-27.3"
TRAJ: 500 m. zero	-1.5"	15.1"	25.0"	26.9"	21.0"	0.0
VELOCITY (fps)	2600	2391	2191	2001	1848	1653
ENERGY (ft.-lbs.)	2086	1764	1481	1236	1053	844
TRAJ: 100 m. zero	-1.5"	0.0	-5.8"	-20.3"	-40.7"	-82.6"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.6"	-29.5"	-68.1"
TRAJ: 300 m. zero	-1.5"	6.8"	7.7"	0.0	-14.7"	-48.8"
TRAJ: 385 m. zero	-1.5"	10.6"	15.3"	11.4"	0.0	-29.8"
TRAJ: 500 m. zero	-1.5"	16.5"	27.3"	29.3"	22.9"	0.0

7MM CALIBER (.284" Dia.) 154 GRAIN SPIRE POINT
SECTIONAL DENSITY: .273 BALLISTIC COEFFICIENT: .433

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3200	2950	2714	2489	2307	2073
ENERGY (ft.-lbs.)	3501	2975	2518	2119	1820	1469
TRAJ: 100 m. zero	-1.5"	0.0	-3.3"	-12.2"	-25.1"	-51.6"
TRAJ: 200 m. zero	-1.5"	1.6"	0.0	-7.3"	-18.7"	-43.4"
TRAJ: 300 m. zero	-1.5"	4.1"	4.9"	0.0	-9.4"	-31.2"
TRAJ: 385 m. zero	-1.5"	6.5"	9.7"	7.3"	0.0	-19.0"
TRAJ: 500 m. zero	-1.5"	10.3"	17.4"	18.7"	14.7"	0.0
VELOCITY (fps)	3100	2856	2624	2404	2226	1996
ENERGY (ft.-lbs.)	3286	2788	2354	1976	1694	1362
TRAJ: 100 m. zero	-1.5"	0.0	-3.6"	-13.3"	-27.1"	-55.6"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.9"	-20.1"	-46.6"
TRAJ: 300 m. zero	-1.5"	4.4"	5.2"	0.0	-10.1"	-33.5"
TRAJ: 385 m. zero	-1.5"	7.0"	10.5"	7.8"	0.0	-20.5"
TRAJ: 500 m. zero	-1.5"	11.1"	18.6"	20.1"	15.8"	0.0
VELOCITY (fps)	3000	2761	2534	2319	2144	1919
ENERGY (ft.-lbs.)	3077	2606	2196	1838	1571	1260
TRAJ: 100 m. zero	-1.5"	0.0	-4.0"	-14.4"	-29.3"	-60.1"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.5"	-21.7"	-50.2"
TRAJ: 300 m. zero	-1.5"	4.8"	5.6"	0.0	-10.8"	-36.1"
TRAJ: 385 m. zero	-1.5"	7.6"	11.3"	8.4"	0.0	-22.0"
TRAJ: 500 m. zero	-1.5"	12.0"	20.1"	21.7"	17.0"	0.0
VELOCITY (fps)	2900	2666	2444	2233	2062	1843
ENERGY (ft.-lbs.)	2875	2431	2043	1705	1453	1161
TRAJ: 100 m. zero	-1.5"	0.0	-4.4"	-15.7"	-31.8"	-65.2"
TRAJ: 200 m. zero	-1.5"	2.2"	0.0	-9.2"	-23.4"	-54.3"
TRAJ: 300 m. zero	-1.5"	5.2"	6.1"	0.0	-11.7"	-39.0"
TRAJ: 385 m. zero	-1.5"	8.3"	12.2"	9.1"	0.0	-23.8"
TRAJ: 500 m. zero	-1.5"	13.0"	21.7"	23.4"	18.3"	0.0
VELOCITY (fps)	2800	2571	2354	2147	1980	1767
ENERGY (ft.-lbs.)	2680	2261	1895	1576	1340	1067
TRAJ: 100 m. zero	-1.5"	0.0	-4.8"	-17.1"	-34.6"	-70.8"
TRAJ: 200 m. zero	-1.5"	2.4"	0.0	-9.9"	-25.4"	-58.8"
TRAJ: 300 m. zero	-1.5"	5.7"	6.6"	0.0	-12.7"	-42.3"
TRAJ: 385 m. zero	-1.5"	9.0"	13.2"	9.9"	0.0	-25.8"
TRAJ: 500 m. zero	-1.5"	14.2"	23.5"	25.4"	19.9"	0.0
VELOCITY (fps)	2700	2476	2264	2061	1898	1691
ENERGY (ft.-lbs.)	2492	2097	1752	1453	1232	978
TRAJ: 100 m. zero	-1.5"	0.0	-5.3"	-18.7"	-37.8"	-77.1"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.8"	-27.6"	-63.9"
TRAJ: 300 m. zero	-1.5"	6.2"	7.2"	0.0	-13.7"	-45.9"
TRAJ: 385 m. zero	-1.5"	9.8"	14.3"	10.7"	0.0	-28.1"
TRAJ: 500 m. zero	-1.5"	15.4"	25.6"	27.6"	21.6"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2600	2381	2173	1976	1817	1616
ENERGY (ft.-lbs.)	2311	1939	1615	1334	1128	893
TRAJ: 100 m. zero	-1.5"	0.0	-5.9"	-20.5"	-41.3"	-84.3"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.8"	-30.1"	-69.7"
TRAJ: 300 m. zero	-1.5"	6.8"	7.8"	0.0	-15.0"	-50.1"
TRAJ: 385 m. zero	-1.5"	10.7"	15.6"	11.7"	0.0	-30.6"
TRAJ: 500 m. zero	-1.5"	16.9"	27.9"	30.0"	23.6"	0.0
VELOCITY (fps)	2500	2286	2083	1890	1736	1543
ENERGY (ft.-lbs.)	2137	1787	1483	1221	1030	814
TRAJ: 100 m. zero	-1.5"	0.0	-6.5"	-22.6"	-45.3"	-92.4"
TRAJ: 200 m. zero	-1.5"	3.2"	0.0	-12.9"	-32.9"	-76.2"
TRAJ: 300 m. zero	-1.5"	7.5"	8.6"	0.0	-16.4"	-54.8"
TRAJ: 385 m. zero	-1.5"	11.8"	17.1"	12.8"	0.0	-33.5"
TRAJ: 500 m. zero	-1.5"	18.5"	30.5"	32.9"	25.8"	0.0
VELOCITY (fps)	2400	2191	1992	1805	1656	1472
ENERGY (ft.-lbs.)	1969	1641	1357	1114	938	741
TRAJ: 100 m. zero	-1.5"	0.0	-7.2"	-24.9"	-49.9"	-101.6"
TRAJ: 200 m. zero	-1.5"	3.6"	0.0	-14.1"	-36.0"	-83.6"
TRAJ: 300 m. zero	-1.5"	8.3"	9.4"	0.0	-17.9"	-60.1"
TRAJ: 385 m. zero	-1.5"	13.0"	18.7"	14.0"	0.0	-36.8"
TRAJ: 500 m. zero	-1.5"	20.3"	33.4"	36.1"	28.3"	0.0
VELOCITY (fps)	2300	2096	1903	1721	1578	1403
ENERGY (ft.-lbs.)	1809	1502	1238	1013	851	673
TRAJ: 100 m. zero	-1.5"	0.0	-8.0"	-27.5"	-55.0"	-112.0"
TRAJ: 200 m. zero	-1.5"	4.0"	0.0	-15.5"	-39.7"	-92.0"
TRAJ: 300 m. zero	-1.5"	9.2"	10.3"	0.0	-19.8"	-66.2"
TRAJ: 385 m. zero	-1.5"	14.3"	20.6"	15.4"	0.0	-40.5"
TRAJ: 500 m. zero	-1.5"	22.4"	36.8"	39.7"	31.2"	0.0

7MM CALIBER (.284" Dia.) 162 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .534

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3100	2901	2710	2528	2378	2184
ENERGY (ft.-lbs.)	3456	3026	2642	2298	2034	1715
TRAJ: 100 m. zero	-1.5"	0.0	-3.4"	-12.6"	-25.4"	-51.3"
TRAJ: 200 m. zero	-1.5"	1.7"	0.0	-7.4"	-18.7"	-42.7"
TRAJ: 300 m. zero	-1.5"	4.2"	4.9"	0.0	-9.3"	-30.4"
TRAJ: 385 m. zero	-1.5"	6.6"	9.7"	7.2"	0.0	-18.4"
TRAJ: 500 m. zero	-1.5"	10.3"	17.1"	18.2"	14.1"	0.0
VELOCITY (fps)	3000	2805	2619	2440	2293	2103
ENERGY (ft.-lbs.)	3237	2830	2467	2141	1891	1590
TRAJ: 100 m. zero	-1.5"	0.0	-3.8"	-13.6"	-27.5"	-55.4"
TRAJ: 200 m. zero	-1.5"	1.9"	0.0	-8.0"	-20.2"	-46.0"
TRAJ: 300 m. zero	-1.5"	4.5"	5.3"	0.0	-10.0"	-32.7"
TRAJ: 385 m. zero	-1.5"	7.1"	10.5"	7.8"	0.0	-19.7"
TRAJ: 500 m. zero	-1.5"	11.1"	18.4"	19.6"	15.2"	0.0
VELOCITY (fps)	2900	2710	2527	2352	2208	2022
ENERGY (ft.-lbs.)	3025	2640	2297	1989	1754	1470
TRAJ: 100 m. zero	-1.5"	0.0	-4.2"	-14.9"	-29.8"	-60.0"
TRAJ: 200 m. zero	-1.5"	2.1"	0.0	-8.6"	-21.8"	-49.6"
TRAJ: 300 m. zero	-1.5"	5.0"	5.7"	0.0	-10.7"	-35.3"
TRAJ: 385 m. zero	-1.5"	7.7"	11.3"	8.4"	0.0	-21.3"
TRAJ: 500 m. zero	-1.5"	12.0"	19.8"	21.2"	16.4"	0.0
VELOCITY (fps)	2800	2614	2435	2263	2123	1941
ENERGY (ft.-lbs.)	2820	2457	2132	1842	1621	1355
TRAJ: 100 m. zero	-1.5"	0.0	-4.6"	-16.2"	-32.4"	-65.1"
TRAJ: 200 m. zero	-1.5"	2.3"	0.0	-9.3"	-23.6"	-53.7"
TRAJ: 300 m. zero	-1.5"	5.4"	6.2"	0.0	-11.6"	-38.1"
TRAJ: 385 m. zero	-1.5"	8.4"	12.2"	9.1"	0.0	-23.0"
TRAJ: 500 m. zero	-1.5"	13.0"	21.5"	22.9"	17.7"	0.0
VELOCITY (fps)	2700	2518	2343	2175	2037	1860
ENERGY (ft.-lbs.)	2622	2280	1974	1701	1493	1244
TRAJ: 100 m. zero	-1.5"	0.0	-5.1"	-17.7"	-35.3"	-70.9"
TRAJ: 200 m. zero	-1.5"	2.5"	0.0	-10.1"	-25.6"	-58.2"
TRAJ: 300 m. zero	-1.5"	5.9"	6.7"	0.0	-12.6"	-41.4"
TRAJ: 385 m. zero	-1.5"	9.2"	13.3"	9.8"	0.0	-25.0"
TRAJ: 500 m. zero	-1.5"	14.2"	23.3"	24.8"	19.3"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2600	2422	2251	2086	1952	1780
ENERGY (ft.-lbs.)	2431	2109	1822	1565	1371	1139
TRAJ: 100 m. zero	-1.5"	0.0	-5.6"	-19.4"	-38.6"	-77.4"
TRAJ: 200 m. zero	-1.5"	2.8"	0.0	-11.0"	-27.8"	-63.4"
TRAJ: 300 m. zero	-1.5"	6.5"	7.3"	0.0	-13.7"	-45.0"
TRAJ: 385 m. zero	-1.5"	10.0"	14.5"	10.7"	0.0	-27.2"
TRAJ: 500 m. zero	-1.5"	15.5"	25.4"	27.0"	21.0"	0.0
VELOCITY (fps)	2500	2326	2158	1998	1867	1700
ENERGY (ft.-lbs.)	2248	1945	1675	1436	1254	1040
TRAJ: 100 m. zero	-1.5"	0.0	-6.2"	-21.3"	-42.3"	-84.7"
TRAJ: 200 m. zero	-1.5"	3.1"	0.0	-12.0"	-30.4"	-69.2"
TRAJ: 300 m. zero	-1.5"	7.1"	8.0"	0.0	-15.0"	-49.2"
TRAJ: 385 m. zero	-1.5"	11.0"	15.8"	11.7"	0.0	-29.7"
TRAJ: 500 m. zero	-1.5"	16.9"	27.7"	29.5"	22.9"	0.0
VELOCITY (fps)	2400	2230	2066	1910	1783	1622
ENERGY (ft.-lbs.)	2072	1788	1535	1312	1144	946
TRAJ: 100 m. zero	-1.5"	0.0	-6.9"	-23.5"	-46.5"	-93.0"
TRAJ: 200 m. zero	-1.5"	3.4"	0.0	-13.2"	-33.3"	-75.8"
TRAJ: 300 m. zero	-1.5"	7.8"	8.8"	0.0	-16.4"	-53.9"
TRAJ: 385 m. zero	-1.5"	12.1"	17.3"	12.8"	0.0	-32.6"
TRAJ: 500 m. zero	-1.5"	18.6"	30.3"	32.3"	25.1"	0.0
VELOCITY (fps)	2300	2134	1974	1823	1700	1545
ENERGY (ft.-lbs.)	1903	1637	1402	1195	1039	859
TRAJ: 100 m. zero	-1.5"	0.0	-7.6"	-26.0"	-51.3"	-102.5"
TRAJ: 200 m. zero	-1.5"	3.8"	0.0	-14.5"	-36.6"	-83.4"
TRAJ: 300 m. zero	-1.5"	8.7"	9.7"	0.0	-18.0"	-59.2"
TRAJ: 385 m. zero	-1.5"	13.3"	19.0"	14.0"	0.0	-35.8"
TRAJ: 500 m. zero	-1.5"	20.5"	33.4"	35.5"	27.6"	0.0

7MM CALIBER (.284" Dia.) 162 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .514

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3100	2893	2696	2507	2352	2152
ENERGY (ft.-lbs.)	3456	3011	2614	2260	1990	1666
TRAJ: 100 m. zero	-1.5"	0.0	-3.5"	-12.7"	-25.7"	-52.0"
TRAJ: 200 m. zero	-1.5"	1.7"	0.0	-7.5"	-19.0"	-43.3"
TRAJ: 300 m. zero	-1.5"	4.2"	5.0"	0.0	-9.4"	-30.9"
TRAJ: 385 m. zero	-1.5"	6.7"	9.9"	7.3"	0.0	-18.7"
TRAJ: 500 m. zero	-1.5"	10.4"	17.3"	18.5"	14.4"	0.0
VELOCITY (fps)	3000	2798	2605	2419	2268	2072
ENERGY (ft.-lbs.)	3237	2815	2440	2105	1850	1543
TRAJ: 100 m. zero	-1.5"	0.0	-3.8"	-13.8"	-27.8"	-56.2"
TRAJ: 200 m. zero	-1.5"	1.9"	0.0	-8.0"	-20.4"	-46.6"
TRAJ: 300 m. zero	-1.5"	4.6"	5.4"	0.0	-10.1"	-33.2"
TRAJ: 385 m. zero	-1.5"	7.2"	10.6"	7.9"	0.0	-20.1"
TRAJ: 500 m. zero	-1.5"	11.2"	18.7"	19.9"	15.5"	0.0
VELOCITY (fps)	2900	2702	2513	2332	2183	1991
ENERGY (ft.-lbs.)	3025	2626	2271	1955	1714	1426
TRAJ: 100 m. zero	-1.5"	0.0	-4.2"	-15.0"	-30.1"	-60.8"
TRAJ: 200 m. zero	-1.5"	2.1"	0.0	-8.7"	-22.1"	-50.3"
TRAJ: 300 m. zero	-1.5"	5.0"	5.8"	0.0	-10.9"	-35.8"
TRAJ: 385 m. zero	-1.5"	7.8"	11.5"	8.5"	0.0	-21.7"
TRAJ: 500 m. zero	-1.5"	12.2"	20.1"	21.5"	16.7"	0.0
VELOCITY (fps)	2800	2607	2421	2244	2098	1911
ENERGY (ft.-lbs.)	2820	2444	2109	1811	1584	1313
TRAJ: 100 m. zero	-1.5"	0.0	-4.6"	-16.4"	-32.8"	-66.0"
TRAJ: 200 m. zero	-1.5"	2.3"	0.0	-9.4"	-23.9"	-54.5"
TRAJ: 300 m. zero	-1.5"	5.5"	6.3"	0.0	-11.8"	-38.8"
TRAJ: 385 m. zero	-1.5"	8.5"	12.4"	9.2"	0.0	-23.5"
TRAJ: 500 m. zero	-1.5"	13.2"	21.8"	23.3"	18.1"	0.0
VELOCITY (fps)	2700	2511	2330	2156	2014	1831
ENERGY (ft.-lbs.)	2622	2267	1952	1671	1458	1206
TRAJ: 100 m. zero	-1.5"	0.0	-5.1"	-17.9"	-35.7"	-71.9"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.2"	-25.9"	-59.1"
TRAJ: 300 m. zero	-1.5"	6.0"	6.8"	0.0	-12.8"	-42.1"
TRAJ: 385 m. zero	-1.5"	9.3"	13.5"	10.0"	0.0	-25.5"
TRAJ: 500 m. zero	-1.5"	14.4"	23.7"	25.3"	19.6"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2600	2415	2238	2068	1929	1752
ENERGY (ft.-lbs.)	2431	2098	1801	1537	1339	1103
TRAJ: 100 m. zero	-1.5"	0.0	-5.6"	-19.6"	-39.1"	-78.5"
TRAJ: 200 m. zero	-1.5"	2.8"	0.0	-11.1"	-28.2"	-64.4"
TRAJ: 300 m. zero	-1.5"	6.5"	7.4"	0.0	-13.9"	-45.8"
TRAJ: 385 m. zero	-1.5"	10.1"	14.6"	10.8"	0.0	-27.8"
TRAJ: 500 m. zero	-1.5"	15.7"	25.8"	27.5"	21.4"	0.0
VELOCITY (fps)	2500	2319	2146	1980	1845	1673
ENERGY (ft.-lbs.)	2248	1934	1656	1410	1224	1007
TRAJ: 100 m. zero	-1.5"	0.0	-6.2"	-21.5"	-42.8"	-85.9"
TRAJ: 200 m. zero	-1.5"	3.1"	0.0	-12.2"	-30.8"	-70.3"
TRAJ: 300 m. zero	-1.5"	7.2"	8.1"	0.0	-15.2"	-50.0"
TRAJ: 385 m. zero	-1.5"	11.1"	16.0"	11.8"	0.0	-30.3"
TRAJ: 500 m. zero	-1.5"	17.2"	28.1"	30.0"	23.4"	0.0
VELOCITY (fps)	2400	2223	2054	1892	1762	1596
ENERGY (ft.-lbs.)	2072	1778	1517	1288	1116	916
TRAJ: 100 m. zero	-1.5"	0.0	-6.9"	-23.7"	-47.1"	-94.4"
TRAJ: 200 m. zero	-1.5"	3.5"	0.0	-13.3"	-33.7"	-77.1"
TRAJ: 300 m. zero	-1.5"	7.9"	8.9"	0.0	-16.6"	-54.8"
TRAJ: 385 m. zero	-1.5"	12.2"	17.5"	13.0"	0.0	-33.2"
TRAJ: 500 m. zero	-1.5"	18.9"	30.8"	32.9"	25.6"	0.0
VELOCITY (fps)	2300	2127	1962	1805	1679	1520
ENERGY (ft.-lbs.)	1903	1628	1385	1172	1014	831
TRAJ: 100 m. zero	-1.5"	0.0	-7.7"	-26.2"	-51.9"	-104.0"
TRAJ: 200 m. zero	-1.5"	3.9"	0.0	-14.7"	-37.1"	-84.8"
TRAJ: 300 m. zero	-1.5"	8.7"	9.8"	0.0	-18.3"	-60.3"
TRAJ: 385 m. zero	-1.5"	13.5"	19.3"	14.2"	0.0	-36.6"
TRAJ: 500 m. zero	-1.5"	20.8"	33.9"	36.2"	28.2"	0.0

7MM CALIBER (.284" Dia.) 175 GRAIN SPIRE POINT
SECTIONAL DENSITY: .310 BALLISTIC COEFFICIENT: .462

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3000	2776	2562	2359	2193	1979
ENERGY (ft.-lbs.)	3497	2993	2551	2161	1868	1522
TRAJ: 100 m. zero	-1.5"	0.0	-3.9"	-14.2"	-28.7"	-58.5"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.3"	-21.2"	-48.8"
TRAJ: 300 m. zero	-1.5"	4.7"	5.5"	0.0	-10.5"	-34.9"
TRAJ: 385 m. zero	-1.5"	7.5"	11.0"	8.2"	0.0	-21.2"
TRAJ: 500 m. zero	-1.5"	11.7"	19.5"	21.0"	16.4"	0.0
VELOCITY (fps)	2900	2681	2472	2272	2110	1901
ENERGY (ft.-lbs.)	3267	2792	2373	2006	1729	1404
TRAJ: 100 m. zero	-1.5"	0.0	-4.3"	-15.4"	-31.1"	-63.4"
TRAJ: 200 m. zero	-1.5"	2.1"	0.0	-9.0"	-22.9"	-52.7"
TRAJ: 300 m. zero	-1.5"	5.1"	6.0"	0.0	-11.4"	-37.7"
TRAJ: 385 m. zero	-1.5"	8.1"	11.9"	8.9"	0.0	-22.9"
TRAJ: 500 m. zero	-1.5"	12.7"	21.1"	22.6"	17.7"	0.0
VELOCITY (fps)	2800	2585	2381	2185	2027	1823
ENERGY (ft.-lbs.)	3046	2597	2202	1855	1596	1291
TRAJ: 100 m. zero	-1.5"	0.0	-4.7"	-16.8"	-33.9"	-68.9"
TRAJ: 200 m. zero	-1.5"	2.4"	0.0	-9.7"	-24.8"	-57.0"
TRAJ: 300 m. zero	-1.5"	5.6"	6.5"	0.0	-12.3"	-40.8"
TRAJ: 385 m. zero	-1.5"	8.8"	12.9"	9.6"	0.0	-24.9"
TRAJ: 500 m. zero	-1.5"	13.8"	22.8"	24.5"	19.1"	0.0
VELOCITY (fps)	2700	2490	2290	2099	1944	1746
ENERGY (ft.-lbs.)	2832	2409	2037	1711	1468	1184
TRAJ: 100 m. zero	-1.5"	0.0	-5.2"	-18.4"	-36.9"	-75.0"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.6"	-26.9"	-61.9"
TRAJ: 300 m. zero	-1.5"	6.1"	7.0"	0.0	-13.4"	-44.4"
TRAJ: 385 m. zero	-1.5"	9.6"	14.0"	10.4"	0.0	-27.0"
TRAJ: 500 m. zero	-1.5"	15.0"	24.8"	26.6"	20.8"	0.0
VELOCITY (fps)	2600	2395	2199	2012	1861	1669
ENERGY (ft.-lbs.)	2626	2228	1878	1573	1345	1082
TRAJ: 100 m. zero	-1.5"	0.0	-5.8"	-20.1"	-40.4"	-81.9"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.5"	-29.3"	-67.5"
TRAJ: 300 m. zero	-1.5"	6.7"	7.7"	0.0	-14.5"	-48.3"
TRAJ: 385 m. zero	-1.5"	10.5"	15.2"	11.3"	0.0	-29.4"
TRAJ: 500 m. zero	-1.5"	16.4"	27.0"	29.0"	22.7"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2500	2299	2108	1925	1779	1594
ENERGY (ft.-lbs.)	2428	2054	1726	1440	1229	987
TRAJ: 100 m. zero	-1.5"	0.0	-6.4"	-22.1"	-44.3"	-89.7"
TRAJ: 200 m. zero	-1.5"	3.2"	0.0	-12.6"	-32.0"	-73.8"
TRAJ: 300 m. zero	-1.5"	7.4"	8.4"	0.0	-15.9"	-52.8"
TRAJ: 385 m. zero	-1.5"	11.5"	16.6"	12.4"	0.0	-32.2"
TRAJ: 500 m. zero	-1.5"	17.9"	29.5"	31.7"	24.8"	0.0
VELOCITY (fps)	2400	2204	2017	1840	1698	1520
ENERGY (ft.-lbs.)	2238	1887	1580	1315	1120	898
TRAJ: 100 m. zero	-1.5"	0.0	-7.1"	-24.4"	-48.7"	-98.6"
TRAJ: 200 m. zero	-1.5"	3.5"	0.0	-13.8"	-35.1"	-80.9"
TRAJ: 300 m. zero	-1.5"	8.1"	9.2"	0.0	-17.4"	-57.9"
TRAJ: 385 m. zero	-1.5"	12.7"	18.2"	13.6"	0.0	-35.3"
TRAJ: 500 m. zero	-1.5"	19.7"	32.4"	34.8"	27.2"	0.0
VELOCITY (fps)	2300	2108	1926	1754	1618	1448
ENERGY (ft.-lbs.)	2055	1727	1442	1196	1017	815
TRAJ: 100 m. zero	-1.5"	0.0	-7.9"	-27.0"	-53.8"	-108.7"
TRAJ: 200 m. zero	-1.5"	3.9"	0.0	-15.2"	-38.6"	-89.0"
TRAJ: 300 m. zero	-1.5"	9.0"	10.1"	0.0	-19.1"	-63.8"
TRAJ: 385 m. zero	-1.5"	14.0"	20.1"	14.9"	0.0	-38.9"
TRAJ: 500 m. zero	-1.5"	21.7"	35.6"	38.3"	29.9"	0.0
VELOCITY (fps)	2200	2013	1836	1670	1539	1379
ENERGY (ft.-lbs.)	1880	1575	1310	1084	920	739
TRAJ: 100 m. zero	-1.5"	0.0	-8.8"	-29.9"	-59.5"	-120.3"
TRAJ: 200 m. zero	-1.5"	4.4"	0.0	-16.8"	-42.6"	-98.3"
TRAJ: 300 m. zero	-1.5"	10.0"	11.2"	0.0	-21.1"	-70.4"
TRAJ: 385 m. zero	-1.5"	15.5"	22.1"	16.5"	0.0	-42.9"
TRAJ: 500 m. zero	-1.5"	24.1"	39.3"	42.2"	33.1"	0.0

30 CALIBER (.308" Dia.) 165 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .248 BALLISTIC COEFFICIENT: .435

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3300	3045	2805	2577	2392	2154
ENERGY (ft.-lbs.)	3989	3397	2882	2433	2096	1700
TRAJ: 100 m. zero	-1.5"	0.0	-3.0"	-11.3"	-23.2"	-47.8"
TRAJ: 200 m. zero	-1.5"	1.5"	0.0	-6.8"	-17.4"	-40.4"
TRAJ: 300 m. zero	-1.5"	3.8"	4.5"	0.0	-8.7"	-29.1"
TRAJ: 385 m. zero	-1.5"	6.0"	9.1"	6.8"	0.0	-17.7"
TRAJ: 500 m. zero	-1.5"	9.6"	16.1"	17.4"	13.6"	0.0
VELOCITY (fps)	3200	2951	2716	2492	2311	2078
ENERGY (ft.-lbs.)	3751	3190	2702	2276	1956	1581
TRAJ: 100 m. zero	-1.5"	0.0	-3.3"	-12.2"	-25.0"	-51.5"
TRAJ: 200 m. zero	-1.5"	1.6"	0.0	-7.3"	-18.7"	-43.3"
TRAJ: 300 m. zero	-1.5"	4.1"	4.9"	0.0	-9.4"	-31.1"
TRAJ: 385 m. zero	-1.5"	6.5"	9.7"	7.3"	0.0	-19.0"
TRAJ: 500 m. zero	-1.5"	10.3"	17.3"	18.7"	14.6"	0.0
VELOCITY (fps)	3100	2857	2626	2407	2229	2001
ENERGY (ft.-lbs.)	3520	2989	2527	2123	1821	1466
TRAJ: 100 m. zero	-1.5"	0.0	-3.6"	-13.2"	-27.0"	-55.5"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.8"	-20.1"	-46.5"
TRAJ: 300 m. zero	-1.5"	4.4"	5.2"	0.0	-10.0"	-33.4"
TRAJ: 385 m. zero	-1.5"	7.0"	10.4"	7.8"	0.0	-20.4"
TRAJ: 500 m. zero	-1.5"	11.1"	18.6"	20.1"	15.7"	0.0
VELOCITY (fps)	3000	2762	2536	2322	2147	1924
ENERGY (ft.-lbs.)	3297	2795	2357	1975	1689	1356
TRAJ: 100 m. zero	-1.5"	0.0	-4.0"	-14.4"	-29.3"	-60.0"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.5"	-21.7"	-50.1"
TRAJ: 300 m. zero	-1.5"	4.8"	5.6"	0.0	-10.8"	-36.0"
TRAJ: 385 m. zero	-1.5"	7.6"	11.3"	8.4"	0.0	-22.0"
TRAJ: 500 m. zero	-1.5"	12.0"	20.0"	21.6"	16.9"	0.0
VELOCITY (fps)	2900	2667	2446	2236	2065	1847
ENERGY (ft.-lbs.)	3081	2606	2192	1831	1562	1250
TRAJ: 100 m. zero	-1.5"	0.0	-4.4"	-15.7"	-31.8"	-65.0"
TRAJ: 200 m. zero	-1.5"	2.2"	0.0	-9.1"	-23.4"	-54.2"
TRAJ: 300 m. zero	-1.5"	5.2"	6.1"	0.0	-11.7"	-38.9"
TRAJ: 385 m. zero	-1.5"	8.3"	12.2"	9.1"	0.0	-23.8"
TRAJ: 500 m. zero	-1.5"	13.0"	21.7"	23.4"	18.3"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2800	2572	2356	2150	1983	1771
ENERGY (ft.-lbs.)	2872	2424	2033	1693	1441	1148
TRAJ: 100 m. zero	-1.5"	0.0	-4.8"	-17.1"	-34.6"	-70.7"
TRAJ: 200 m. zero	-1.5"	2.4"	0.0	-9.9"	-25.3"	-58.7"
TRAJ: 300 m. zero	-1.5"	5.7"	6.6"	0.0	-12.6"	-42.2"
TRAJ: 385 m. zero	-1.5"	9.0"	13.2"	9.8"	0.0	-25.8"
TRAJ: 500 m. zero	-1.5"	14.1"	23.5"	25.3"	19.8"	0.0
VELOCITY (fps)	2700	2477	2266	2064	1901	1695
ENERGY (ft.-lbs.)	2670	2248	1880	1561	1324	1052
TRAJ: 100 m. zero	-1.5"	0.0	-5.3"	-18.7"	-37.7"	-77.0"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.8"	-27.5"	-63.8"
TRAJ: 300 m. zero	-1.5"	6.2"	7.2"	0.0	-13.7"	-45.8"
TRAJ: 385 m. zero	-1.5"	9.8"	14.3"	10.7"	0.0	-28.0"
TRAJ: 500 m. zero	-1.5"	15.4"	25.5"	27.5"	21.6"	0.0
VELOCITY (fps)	2600	2382	2175	1978	1820	1620
ENERGY (ft.-lbs.)	2476	2079	1733	1433	1213	962
TRAJ: 100 m. zero	-1.5"	0.0	-5.8"	-20.5"	-41.3"	-84.1"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.7"	-30.0"	-69.5"
TRAJ: 300 m. zero	-1.5"	6.8"	7.8"	0.0	-14.9"	-49.9"
TRAJ: 385 m. zero	-1.5"	10.7"	15.6"	11.6"	0.0	-30.5"
TRAJ: 500 m. zero	-1.5"	16.8"	27.8"	30.0"	23.5"	0.0
VELOCITY (fps)	2500	2287	2084	1893	1739	1547
ENERGY (ft.-lbs.)	2289	1916	1592	1312	1108	876
TRAJ: 100 m. zero	-1.5"	0.0	-6.5"	-22.5"	-45.2"	-92.2"
TRAJ: 200 m. zero	-1.5"	3.2"	0.0	-12.8"	-32.8"	-76.0"
TRAJ: 300 m. zero	-1.5"	7.5"	8.6"	0.0	-16.3"	-54.6"
TRAJ: 385 m. zero	-1.5"	11.8"	17.0"	12.7"	0.0	-33.4"
TRAJ: 500 m. zero	-1.5"	18.4"	30.4"	32.8"	25.7"	0.0
VELOCITY (fps)	2400	2192	1994	1808	1659	1475
ENERGY (ft.-lbs.)	2110	1760	1457	1197	1008	797
TRAJ: 100 m. zero	-1.5"	0.0	-7.2"	-24.8"	-49.8"	-101.3"
TRAJ: 200 m. zero	-1.5"	3.6"	0.0	-14.1"	-36.0"	-83.4"
TRAJ: 300 m. zero	-1.5"	8.3"	9.4"	0.0	-17.9"	-59.9"
TRAJ: 385 m. zero	-1.5"	12.9"	18.7"	14.0"	0.0	-36.7"
TRAJ: 500 m. zero	-1.5"	20.3"	33.4"	36.0"	28.3"	0.0
VELOCITY (fps)	2300	2097	1904	1724	1581	1406
ENERGY (ft.-lbs.)	1938	1610	1328	1088	915	724
TRAJ: 100 m. zero	-1.5"	0.0	-8.0"	-27.5"	-55.0"	-111.8"
TRAJ: 200 m. zero	-1.5"	4.0"	0.0	-15.5"	-39.6"	-91.8"
TRAJ: 300 m. zero	-1.5"	9.2"	10.3"	0.0	-19.7"	-66.0"
TRAJ: 385 m. zero	-1.5"	14.3"	20.6"	15.4"	0.0	-40.4"
TRAJ: 500 m. zero	-1.5"	22.4"	36.7"	39.6"	31.1"	0.0
VELOCITY (fps)	2200	2002	1815	1641	1504	1339
ENERGY (ft.-lbs.)	1773	1468	1207	986	829	657
TRAJ: 100 m. zero	-1.5"	0.0	-8.9"	-30.5"	-60.9"	-123.6"
TRAJ: 200 m. zero	-1.5"	4.5"	0.0	-17.1"	-43.7"	-101.4"
TRAJ: 300 m. zero	-1.5"	10.2"	11.4"	0.0	-21.8"	-72.9"
TRAJ: 385 m. zero	-1.5"	15.8"	22.7"	17.0"	0.0	-44.6"
TRAJ: 500 m. zero	-1.5"	24.7"	40.6"	43.7"	34.3"	0.0

30 CALIBER (.308" Dia.) 168 GRAIN BOAT TAIL HOLLOW POINT NATIONAL MATCH
SECTIONAL DENSITY: .253 BALLISTIC COEFFICIENT: .450

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3300	3054	2821	2599	2420	2188
ENERGY (ft.-lbs.)	4062	3478	2967	2520	2184	1785
TRAJ: 100 m. zero	-1.5"	0.0	-3.0"	-11.2"	-22.9"	-47.2"
TRAJ: 200 m. zero	-1.5"	1.5"	0.0	-6.7"	-17.2"	-39.8"
TRAJ: 300 m. zero	-1.5"	3.7"	4.5"	0.0	-8.6"	-28.6"
TRAJ: 385 m. zero	-1.5"	6.0"	8.9"	6.7"	0.0	-17.4"
TRAJ: 500 m. zero	-1.5"	9.4"	15.9"	17.1"	13.4"	0.0
VELOCITY (fps)	3200	2959	2731	2514	2338	2111
ENERGY (ft.-lbs.)	3819	3266	2782	2358	2039	1661
TRAJ: 100 m. zero	-1.5"	0.0	-3.3"	-12.1"	-24.7"	-50.8"
TRAJ: 200 m. zero	-1.5"	1.6"	0.0	-7.2"	-18.5"	-42.6"
TRAJ: 300 m. zero	-1.5"	4.0"	4.8"	0.0	-9.2"	-30.6"
TRAJ: 385 m. zero	-1.5"	6.4"	9.6"	7.2"	0.0	-18.6"
TRAJ: 500 m. zero	-1.5"	10.2"	17.0"	18.4"	14.3"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3100	2865	2641	2429	2256	2033
ENERGY (ft.-lbs.)	3584	3061	2602	2200	1898	1541
TRAJ: 100 m. zero	-1.5"	0.0	-3.6"	-13.1"	-26.7"	-54.7"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.8"	-19.9"	-45.8"
TRAJ: 300 m. zero	-1.5"	4.4"	5.2"	0.0	-9.9"	-32.9"
TRAJ: 385 m. zero	-1.5"	6.9"	10.3"	7.7"	0.0	-20.0"
TRAJ: 500 m. zero	-1.5"	10.9"	18.3"	19.7"	15.4"	0.0
VELOCITY (fps)	3000	2770	2551	2343	2173	1955
ENERGY (ft.-lbs.)	3357	2861	2427	2047	1762	1426
TRAJ: 100 m. zero	-1.5"	0.0	-3.9"	-14.3"	-28.9"	-59.2"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.4"	-21.4"	-49.3"
TRAJ: 300 m. zero	-1.5"	4.8"	5.6"	0.0	-10.7"	-35.4"
TRAJ: 385 m. zero	-1.5"	7.5"	11.1"	8.3"	0.0	-21.6"
TRAJ: 500 m. zero	-1.5"	11.8"	19.7"	21.2"	16.6"	0.0
VELOCITY (fps)	2900	2675	2461	2257	2091	1878
ENERGY (ft.-lbs.)	3137	2669	2258	1899	1630	1315
TRAJ: 100 m. zero	-1.5"	0.0	-4.3"	-15.5"	-31.4"	-64.1"
TRAJ: 200 m. zero	-1.5"	2.2"	0.0	-9.0"	-23.1"	-53.3"
TRAJ: 300 m. zero	-1.5"	5.2"	6.0"	0.0	-11.5"	-38.2"
TRAJ: 385 m. zero	-1.5"	8.2"	12.0"	9.0"	0.0	-23.3"
TRAJ: 500 m. zero	-1.5"	12.8"	21.3"	22.9"	17.9"	0.0
VELOCITY (fps)	2800	2580	2370	2170	2008	1800
ENERGY (ft.-lbs.)	2924	2482	2095	1757	1504	1209
TRAJ: 100 m. zero	-1.5"	0.0	-4.8"	-16.9"	-34.2"	-69.6"
TRAJ: 200 m. zero	-1.5"	2.4"	0.0	-9.8"	-25.0"	-57.7"
TRAJ: 300 m. zero	-1.5"	5.6"	6.5"	0.0	-12.4"	-41.4"
TRAJ: 385 m. zero	-1.5"	8.9"	13.0"	9.7"	0.0	-25.2"
TRAJ: 500 m. zero	-1.5"	13.9"	23.1"	24.8"	19.4"	0.0
VELOCITY (fps)	2700	2485	2279	2084	1925	1724
ENERGY (ft.-lbs.)	2719	2303	1938	1619	1383	1108
TRAJ: 100 m. zero	-1.5"	0.0	-5.2"	-18.5"	-37.3"	-75.8"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.6"	-27.2"	-62.7"
TRAJ: 300 m. zero	-1.5"	6.2"	7.1"	0.0	-13.5"	-45.0"
TRAJ: 385 m. zero	-1.5"	9.7"	14.1"	10.5"	0.0	-27.4"
TRAJ: 500 m. zero	-1.5"	15.2"	25.1"	27.0"	21.1"	0.0
VELOCITY (fps)	2600	2389	2188	1997	1843	1648
ENERGY (ft.-lbs.)	2521	2129	1786	1488	1267	1013
TRAJ: 100 m. zero	-1.5"	0.0	-5.8"	-20.3"	-40.8"	-82.8"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.6"	-29.6"	-68.3"
TRAJ: 300 m. zero	-1.5"	6.8"	7.7"	0.0	-14.7"	-49.0"
TRAJ: 385 m. zero	-1.5"	10.6"	15.4"	11.5"	0.0	-29.9"
TRAJ: 500 m. zero	-1.5"	16.6"	27.3"	29.4"	23.0"	0.0
VELOCITY (fps)	2500	2294	2098	1911	1762	1573
ENERGY (ft.-lbs.)	2331	1963	1641	1363	1157	923
TRAJ: 100 m. zero	-1.5"	0.0	-6.4"	-22.3"	-44.7"	-90.8"
TRAJ: 200 m. zero	-1.5"	3.2"	0.0	-12.7"	-32.3"	-74.7"
TRAJ: 300 m. zero	-1.5"	7.4"	8.5"	0.0	-16.1"	-53.6"
TRAJ: 385 m. zero	-1.5"	11.6"	16.8"	12.5"	0.0	-32.7"
TRAJ: 500 m. zero	-1.5"	18.2"	29.9"	32.2"	25.2"	0.0
VELOCITY (fps)	2400	2199	2007	1826	1681	1501
ENERGY (ft.-lbs.)	2148	1803	1502	1243	1054	840
TRAJ: 100 m. zero	-1.5"	0.0	-7.1"	-24.6"	-49.2"	-99.8"
TRAJ: 200 m. zero	-1.5"	3.6"	0.0	-13.9"	-35.5"	-82.0"
TRAJ: 300 m. zero	-1.5"	8.2"	9.3"	0.0	-17.6"	-58.8"
TRAJ: 385 m. zero	-1.5"	12.8"	18.4"	13.7"	0.0	-35.9"
TRAJ: 500 m. zero	-1.5"	20.0"	32.8"	35.3"	27.6"	0.0
VELOCITY (fps)	2300	2103	1917	1741	1602	1430
ENERGY (ft.-lbs.)	1973	1650	1370	1131	957	762
TRAJ: 100 m. zero	-1.5"	0.0	-7.9"	-27.2"	-54.3"	-110.0"
TRAJ: 200 m. zero	-1.5"	4.0"	0.0	-15.3"	-39.0"	-90.2"
TRAJ: 300 m. zero	-1.5"	9.1"	10.2"	0.0	-19.4"	-64.7"
TRAJ: 385 m. zero	-1.5"	14.1"	20.3"	15.1"	0.0	-39.5"
TRAJ: 500 m. zero	-1.5"	22.0"	36.1"	38.8"	30.4"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2200	2008	1827	1658	1524	1362
ENERGY (ft.-lbs.)	1805	1504	1245	1025	866	691
TRAJ: 100 m. zero	-1.5"	0.0	-8.8"	-30.2"	-60.1"	-121.7"
TRAJ: 200 m. zero	-1.5"	4.4"	0.0	-16.9"	-43.1"	-99.6"
TRAJ: 300 m. zero	-1.5"	10.1"	11.3"	0.0	-21.4"	-71.4"
TRAJ: 385 m. zero	-1.5"	15.6"	22.4"	16.7"	0.0	-43.6"
TRAJ: 500 m. zero	-1.5"	24.3"	39.8"	42.9"	33.6"	0.0

30 CALIBER (.308" Dia.) 180 GRAIN SPIRE POINT
SECTIONAL DENSITY: .271 BALLISTIC COEFFICIENT: .425

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3200	2945	2705	2477	2292	2055
ENERGY (ft.-lbs.)	4092	3467	2924	2452	2100	1687
TRAJ: 100 m. zero	-1.5"	0.0	-3.3"	-12.3"	-25.2"	-52.0"
TRAJ: 200 m. zero	-1.5"	1.7"	0.0	-7.3"	-18.9"	-43.8"
TRAJ: 300 m. zero	-1.5"	4.1"	4.9"	0.0	-9.4"	-31.5"
TRAJ: 385 m. zero	-1.5"	6.6"	9.8"	7.4"	0.0	-19.3"
TRAJ: 500 m. zero	-1.5"	10.4"	17.5"	18.9"	14.8"	0.0
VELOCITY (fps)	3100	2851	2616	2392	2211	1978
ENERGY (ft.-lbs.)	3840	3248	2734	2287	1953	1564
TRAJ: 100 m. zero	-1.5"	0.0	-3.6"	-13.3"	-27.3"	-56.1"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.9"	-20.3"	-47.0"
TRAJ: 300 m. zero	-1.5"	4.4"	5.3"	0.0	-10.1"	-33.9"
TRAJ: 385 m. zero	-1.5"	7.1"	10.5"	7.9"	0.0	-20.7"
TRAJ: 500 m. zero	-1.5"	11.2"	18.8"	20.3"	15.9"	0.0
VELOCITY (fps)	3000	2757	2526	2307	2129	1902
ENERGY (ft.-lbs.)	3597	3037	2550	2127	1812	1445
TRAJ: 100 m. zero	-1.5"	0.0	-4.0"	-14.5"	-29.5"	-60.6"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.5"	-21.9"	-50.7"
TRAJ: 300 m. zero	-1.5"	4.8"	5.7"	0.0	-10.9"	-36.5"
TRAJ: 385 m. zero	-1.5"	7.7"	11.4"	8.5"	0.0	-22.3"
TRAJ: 500 m. zero	-1.5"	12.1"	20.3"	21.9"	17.2"	0.0
VELOCITY (fps)	2900	2662	2436	2221	2048	1826
ENERGY (ft.-lbs.)	3361	2832	2372	1972	1675	1332
TRAJ: 100 m. zero	-1.5"	0.0	-4.4"	-15.8"	-32.0"	-65.7"
TRAJ: 200 m. zero	-1.5"	2.2"	0.0	-9.2"	-23.6"	-54.8"
TRAJ: 300 m. zero	-1.5"	5.3"	6.1"	0.0	-11.8"	-39.4"
TRAJ: 385 m. zero	-1.5"	8.3"	12.3"	9.2"	0.0	-24.1"
TRAJ: 500 m. zero	-1.5"	13.1"	21.9"	23.7"	18.6"	0.0
VELOCITY (fps)	2800	2567	2346	2136	1966	1750
ENERGY (ft.-lbs.)	3133	2634	2199	1823	1544	1224
TRAJ: 100 m. zero	-1.5"	0.0	-4.8"	-17.2"	-34.9"	-71.4"
TRAJ: 200 m. zero	-1.5"	2.4"	0.0	-10.0"	-25.6"	-59.4"
TRAJ: 300 m. zero	-1.5"	5.7"	6.7"	0.0	-12.8"	-42.7"
TRAJ: 385 m. zero	-1.5"	9.1"	13.3"	10.0"	0.0	-26.1"
TRAJ: 500 m. zero	-1.5"	14.3"	23.7"	25.6"	20.1"	0.0
VELOCITY (fps)	2700	2472	2256	2050	1884	1675
ENERGY (ft.-lbs.)	2913	2442	2033	1680	1419	1121
TRAJ: 100 m. zero	-1.5"	0.0	-5.3"	-18.8"	-38.0"	-77.8"
TRAJ: 200 m. zero	-1.5"	2.7"	0.0	-10.9"	-27.8"	-64.5"
TRAJ: 300 m. zero	-1.5"	6.3"	7.2"	0.0	-13.9"	-46.4"
TRAJ: 385 m. zero	-1.5"	9.9"	14.4"	10.8"	0.0	-28.4"
TRAJ: 500 m. zero	-1.5"	15.6"	25.8"	27.9"	21.9"	0.0
VELOCITY (fps)	2600	2377	2165	1965	1803	1601
ENERGY (ft.-lbs.)	2701	2258	1874	1543	1300	1024
TRAJ: 100 m. zero	-1.5"	0.0	-5.9"	-20.6"	-41.6"	-85.0"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.8"	-30.3"	-70.3"
TRAJ: 300 m. zero	-1.5"	6.9"	7.9"	0.0	-15.1"	-50.6"
TRAJ: 385 m. zero	-1.5"	10.8"	15.7"	11.8"	0.0	-31.0"
TRAJ: 500 m. zero	-1.5"	17.0"	28.1"	30.4"	23.9"	0.0
VELOCITY (fps)	2500	2282	2075	1880	1723	1528
ENERGY (ft.-lbs.)	2498	2081	1721	1412	1187	933
TRAJ: 100 m. zero	-1.5"	0.0	-6.5"	-22.7"	-45.6"	-93.2"
TRAJ: 200 m. zero	-1.5"	3.3"	0.0	-12.9"	-33.1"	-76.9"
TRAJ: 300 m. zero	-1.5"	7.6"	8.6"	0.0	-16.5"	-55.4"
TRAJ: 385 m. zero	-1.5"	11.9"	17.2"	12.9"	0.0	-33.9"
TRAJ: 500 m. zero	-1.5"	18.6"	30.8"	33.2"	26.1"	0.0

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RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2400	2187	1985	1795	1644	1458
ENERGY (ft.-lbs.)	2302	1912	1575	1288	1080	849
TRAJ: 100 m. zero	-1.5"	0.0	-7.2"	-25.0"	-50.2"	-102.5"
TRAJ: 200 m. zero	-1.5"	3.6"	0.0	-14.2"	-36.3"	-84.4"
TRAJ: 300 m. zero	-1.5"	8.3"	9.5"	0.0	-18.1"	-60.8"
TRAJ: 385 m. zero	-1.5"	13.0"	18.9"	14.1"	0.0	-37.3"
TRAJ: 500 m. zero	-1.5"	20.5"	33.8"	36.5"	28.7"	0.0
VELOCITY (fps)	2300	2092	1896	1711	1566	1389
ENERGY (ft.-lbs.)	2114	1749	1436	1170	980	771
TRAJ: 100 m. zero	-1.5"	0.0	-8.0"	-27.7"	-55.4"	-113.0"
TRAJ: 200 m. zero	-1.5"	4.0"	0.0	-15.6"	-40.0"	-93.0"
TRAJ: 300 m. zero	-1.5"	9.2"	10.4"	0.0	-19.9"	-66.9"
TRAJ: 385 m. zero	-1.5"	14.4"	20.8"	15.5"	0.0	-41.0"
TRAJ: 500 m. zero	-1.5"	22.6"	37.2"	40.1"	31.6"	0.0
VELOCITY (fps)	2200	1997	1807	1629	1490	1324
ENERGY (ft.-lbs.)	1934	1594	1304	1060	887	700
TRAJ: 100 m. zero	-1.5"	0.0	-9.0"	-30.7"	-61.4"	-125.0"
TRAJ: 200 m. zero	-1.5"	4.5"	0.0	-17.3"	-44.2"	-102.7"
TRAJ: 300 m. zero	-1.5"	10.2"	11.5"	0.0	-22.0"	-73.9"
TRAJ: 385 m. zero	-1.5"	15.9"	22.9"	17.2"	0.0	-45.3"
TRAJ: 500 m. zero	-1.5"	25.0"	41.1"	44.3"	34.9"	0.0

30 CALIBER (.308" Dia.) 180 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .271 BALLISTIC COEFFICIENT: .452

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3200	2960	2733	2517	2341	2115
ENERGY (ft.-lbs.)	4092	3502	2985	2532	2191	1787
TRAJ: 100 m. zero	-1.5"	0.0	-3.3"	-12.1"	-24.7"	-50.7"
TRAJ: 200 m. zero	-1.5"	1.6"	0.0	-7.2"	-18.4"	-42.5"
TRAJ: 300 m. zero	-1.5"	4.0"	4.8"	0.0	-9.2"	-30.5"
TRAJ: 385 m. zero	-1.5"	6.4"	9.6"	7.2"	0.0	-18.6"
TRAJ: 500 m. zero	-1.5"	10.1"	17.0"	18.3"	14.3"	0.0
VELOCITY (fps)	3100	2866	2643	2431	2259	2037
ENERGY (ft.-lbs.)	3840	3282	2792	2362	2040	1658
TRAJ: 100 m. zero	-1.5"	0.0	-3.6"	-13.1"	-26.7"	-54.6"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.7"	-19.8"	-45.7"
TRAJ: 300 m. zero	-1.5"	4.4"	5.2"	0.0	-9.9"	-32.8"
TRAJ: 385 m. zero	-1.5"	6.9"	10.3"	7.7"	0.0	-20.0"
TRAJ: 500 m. zero	-1.5"	10.9"	18.3"	19.7"	15.4"	0.0
VELOCITY (fps)	3000	2771	2553	2345	2177	1959
ENERGY (ft.-lbs.)	3597	3068	2605	2198	1893	1534
TRAJ: 100 m. zero	-1.5"	0.0	-3.9"	-14.2"	-28.9"	-59.0"
TRAJ: 200 m. zero	-1.5"	2.0"	0.0	-8.4"	-21.4"	-49.2"
TRAJ: 300 m. zero	-1.5"	4.7"	5.6"	0.0	-10.6"	-35.3"
TRAJ: 385 m. zero	-1.5"	7.5"	11.1"	8.3"	0.0	-21.5"
TRAJ: 500 m. zero	-1.5"	11.8"	19.7"	21.2"	16.6"	0.0
VELOCITY (fps)	2900	2676	2463	2259	2094	1882
ENERGY (ft.-lbs.)	3361	2861	2423	2040	1752	1415
TRAJ: 100 m. zero	-1.5"	0.0	-4.3"	-15.5"	-31.4"	-64.0"
TRAJ: 200 m. zero	-1.5"	2.2"	0.0	-9.0"	-23.1"	-53.2"
TRAJ: 300 m. zero	-1.5"	5.2"	6.0"	0.0	-11.5"	-38.1"
TRAJ: 385 m. zero	-1.5"	8.1"	12.0"	8.9"	0.0	-23.2"
TRAJ: 500 m. zero	-1.5"	12.8"	21.3"	22.9"	17.9"	0.0
VELOCITY (fps)	2800	2581	2372	2173	2011	1804
ENERGY (ft.-lbs.)	3133	2662	2248	1886	1616	1301
TRAJ: 100 m. zero	-1.5"	0.0	-4.8"	-16.9"	-34.1"	-69.5"
TRAJ: 200 m. zero	-1.5"	2.4"	0.0	-9.8"	-25.0"	-57.6"
TRAJ: 300 m. zero	-1.5"	5.6"	6.5"	0.0	-12.4"	-41.3"
TRAJ: 385 m. zero	-1.5"	8.9"	13.0"	9.7"	0.0	-25.2"
TRAJ: 500 m. zero	-1.5"	13.9"	23.0"	24.8"	19.4"	0.0
VELOCITY (fps)	2700	2486	2281	2086	1928	1727
ENERGY (ft.-lbs.)	2913	2469	2079	1739	1486	1193
TRAJ: 100 m. zero	-1.5"	0.0	-5.2"	-18.5"	-37.2"	-75.7"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.6"	-27.1"	-62.6"
TRAJ: 300 m. zero	-1.5"	6.2"	7.1"	0.0	-13.5"	-44.9"
TRAJ: 385 m. zero	-1.5"	9.7"	14.1"	10.5"	0.0	-27.4"
TRAJ: 500 m. zero	-1.5"	15.1"	25.0"	26.9"	21.1"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2600	2390	2190	2000	1846	1652
ENERGY (ft.-lbs.)	2701	2283	1917	1598	1362	1090
TRAJ: 100 m. zero	-1.5"	0.0	-5.8"	-20.3"	-40.7"	-82.7"
TRAJ: 200 m. zero	-1.5"	2.9"	0.0	-11.6"	-29.5"	-68.2"
TRAJ: 300 m. zero	-1.5"	6.8"	7.7"	0.0	-14.7"	-48.9"
TRAJ: 385 m. zero	-1.5"	10.6"	15.4"	11.4"	0.0	-29.8"
TRAJ: 500 m. zero	-1.5"	16.5"	27.3"	29.3"	23.0"	0.0
VELOCITY (fps)	2500	2295	2099	1914	1765	1577
ENERGY (ft.-lbs.)	2498	2105	1761	1464	1244	994
TRAJ: 100 m. zero	-1.5"	0.0	-6.4"	-22.3"	-44.6"	-90.6"
TRAJ: 200 m. zero	-1.5"	3.2"	0.0	-12.7"	-32.3"	-74.6"
TRAJ: 300 m. zero	-1.5"	7.4"	8.4"	0.0	-16.0"	-53.5"
TRAJ: 385 m. zero	-1.5"	11.6"	16.8"	12.5"	0.0	-32.6"
TRAJ: 500 m. zero	-1.5"	18.1"	29.8"	32.1"	25.1"	0.0
VELOCITY (fps)	2400	2200	2009	1828	1684	1504
ENERGY (ft.-lbs.)	2302	1933	1612	1336	1133	904
TRAJ: 100 m. zero	-1.5"	0.0	-7.1"	-24.6"	-49.1"	-99.6"
TRAJ: 200 m. zero	-1.5"	3.6"	0.0	-13.9"	-35.4"	-81.8"
TRAJ: 300 m. zero	-1.5"	8.2"	9.3"	0.0	-17.6"	-58.6"
TRAJ: 385 m. zero	-1.5"	12.8"	18.4"	13.7"	0.0	-35.8"
TRAJ: 500 m. zero	-1.5"	19.9"	32.7"	35.2"	27.6"	0.0
VELOCITY (fps)	2300	2104	1918	1743	1604	1433
ENERGY (ft.-lbs.)	2114	1769	1471	1215	1029	820
TRAJ: 100 m. zero	-1.5"	0.0	-7.9"	-27.2"	-54.2"	-109.8"
TRAJ: 200 m. zero	-1.5"	4.0"	0.0	-15.3"	-39.0"	-90.0"
TRAJ: 300 m. zero	-1.5"	9.1"	10.2"	0.0	-19.3"	-64.5"
TRAJ: 385 m. zero	-1.5"	14.1"	20.2"	15.1"	0.0	-39.4"
TRAJ: 500 m. zero	-1.5"	22.0"	36.0"	38.7"	30.4"	0.0
VELOCITY (fps)	2200	2009	1829	1660	1527	1365
ENERGY (ft.-lbs.)	1934	1613	1336	1101	931	744
TRAJ: 100 m. zero	-1.5"	0.0	-8.8"	-30.1"	-60.0"	-121.5"
TRAJ: 200 m. zero	-1.5"	4.4"	0.0	-16.9"	-43.0"	-99.4"
TRAJ: 300 m. zero	-1.5"	10.0"	11.3"	0.0	-21.4"	-71.3"
TRAJ: 385 m. zero	-1.5"	15.6"	22.3"	16.6"	0.0	-43.5"
TRAJ: 500 m. zero	-1.5"	24.3"	39.8"	42.8"	33.5"	0.0

30 CALIBER (.308" Dia.) 190 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .286 BALLISTIC COEFFICIENT: .530

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3100	2899	2708	2524	2373	2178
ENERGY (ft.-lbs.)	4054	3546	3092	2687	2376	2000
TRAJ: 100 m. zero	-1.5"	0.0	-3.5"	-12.6"	-25.4"	-51.5"
TRAJ: 200 m. zero	-1.5"	1.7"	0.0	-7.4"	-18.8"	-42.8"
TRAJ: 300 m. zero	-1.5"	4.2"	4.9"	0.0	-9.3"	-30.5"
TRAJ: 385 m. zero	-1.5"	6.6"	9.8"	7.2"	0.0	-18.4"
TRAJ: 500 m. zero	-1.5"	10.3"	17.1"	18.3"	14.2"	0.0
VELOCITY (fps)	3000	2804	2616	2436	2288	2097
ENERGY (ft.-lbs.)	3796	3316	2887	2503	2209	1855
TRAJ: 100 m. zero	-1.5"	0.0	-3.8"	-13.7"	-27.5"	-55.6"
TRAJ: 200 m. zero	-1.5"	1.9"	0.0	-8.0"	-20.2"	-46.1"
TRAJ: 300 m. zero	-1.5"	4.6"	5.3"	0.0	-10.0"	-32.8"
TRAJ: 385 m. zero	-1.5"	7.2"	10.5"	7.8"	0.0	-19.8"
TRAJ: 500 m. zero	-1.5"	11.1"	18.4"	19.7"	15.3"	0.0
VELOCITY (fps)	2900	2708	2524	2348	2203	2016
ENERGY (ft.-lbs.)	3547	3094	2688	2325	2048	1714
TRAJ: 100 m. zero	-1.5"	0.0	-4.2"	-14.9"	-29.9"	-60.2"
TRAJ: 200 m. zero	-1.5"	2.1"	0.0	-8.6"	-21.8"	-49.7"
TRAJ: 300 m. zero	-1.5"	5.0"	5.7"	0.0	-10.8"	-35.4"
TRAJ: 385 m. zero	-1.5"	7.8"	11.3"	8.4"	0.0	-21.4"
TRAJ: 500 m. zero	-1.5"	12.0"	19.9"	21.2"	16.5"	0.0
VELOCITY (fps)	2800	2612	2432	2259	2118	1935
ENERGY (ft.-lbs.)	3307	2879	2496	2153	1892	1579
TRAJ: 100 m. zero	-1.5"	0.0	-4.6"	-16.2"	-32.5"	-65.3"
TRAJ: 200 m. zero	-1.5"	2.3"	0.0	-9.3"	-23.6"	-53.8"
TRAJ: 300 m. zero	-1.5"	5.4"	6.2"	0.0	-11.7"	-38.3"
TRAJ: 385 m. zero	-1.5"	8.4"	12.3"	9.1"	0.0	-23.1"
TRAJ: 500 m. zero	-1.5"	13.1"	21.5"	23.0"	17.8"	0.0

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RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2700	2516	2340	2171	2033	1854
ENERGY (ft.-lbs.)	3075	2671	2310	1988	1743	1450
TRAJ: 100 m. zero	-1.5"	0.0	-5.1"	-17.7"	-35.4"	-71.1"
TRAJ: 200 m. zero	-1.5"	2.5"	0.0	-10.1"	-25.6"	-58.4"
TRAJ: 300 m. zero	-1.5"	5.9"	6.8"	0.0	-12.6"	-41.5"
TRAJ: 385 m. zero	-1.5"	9.2"	13.3"	9.8"	0.0	-25.1"
TRAJ: 500 m. zero	-1.5"	14.2"	23.4"	24.9"	19.3"	0.0
VELOCITY (fps)	2600	2420	2248	2083	1948	1774
ENERGY (ft.-lbs.)	2851	2471	2132	1830	1600	1328
TRAJ: 100 m. zero	-1.5"	0.0	-5.6"	-19.4"	-38.7"	-77.6"
TRAJ: 200 m. zero	-1.5"	2.8"	0.0	-11.0"	-27.9"	-63.6"
TRAJ: 300 m. zero	-1.5"	6.5"	7.4"	0.0	-13.7"	-45.2"
TRAJ: 385 m. zero	-1.5"	10.1"	14.5"	10.7"	0.0	-27.3"
TRAJ: 500 m. zero	-1.5"	15.5"	25.4"	27.1"	21.0"	0.0
VELOCITY (fps)	2500	2324	2156	1994	1863	1695
ENERGY (ft.-lbs.)	2636	2279	1961	1678	1464	1212
TRAJ: 100 m. zero	-1.5"	0.0	-6.2"	-21.4"	-42.4"	-84.9"
TRAJ: 200 m. zero	-1.5"	3.1"	0.0	-12.1"	-30.5"	-69.4"
TRAJ: 300 m. zero	-1.5"	7.1"	8.0"	0.0	-15.0"	-49.3"
TRAJ: 385 m. zero	-1.5"	11.0"	15.8"	11.7"	0.0	-29.8"
TRAJ: 500 m. zero	-1.5"	17.0"	27.8"	29.6"	23.0"	0.0
VELOCITY (fps)	2400	2228	2064	1907	1779	1617
ENERGY (ft.-lbs.)	2430	2095	1797	1533	1335	1103
TRAJ: 100 m. zero	-1.5"	0.0	-6.9"	-23.5"	-46.6"	-93.3"
TRAJ: 200 m. zero	-1.5"	3.4"	0.0	-13.2"	-33.4"	-76.1"
TRAJ: 300 m. zero	-1.5"	7.8"	8.8"	0.0	-16.4"	-54.0"
TRAJ: 385 m. zero	-1.5"	12.1"	17.3"	12.8"	0.0	-32.7"
TRAJ: 500 m. zero	-1.5"	18.7"	30.4"	32.4"	25.2"	0.0
VELOCITY (fps)	2300	2132	1972	1819	1696	1540
ENERGY (ft.-lbs.)	2231	1918	1640	1396	1213	1001
TRAJ: 100 m. zero	-1.5"	0.0	-7.7"	-26.0"	-51.5"	-102.8"
TRAJ: 200 m. zero	-1.5"	3.8"	0.0	-14.5"	-36.7"	-83.7"
TRAJ: 300 m. zero	-1.5"	8.7"	9.7"	0.0	-18.1"	-59.4"
TRAJ: 385 m. zero	-1.5"	13.4"	19.1"	14.1"	0.0	-36.0"
TRAJ: 500 m. zero	-1.5"	20.6"	33.5"	35.7"	27.7"	0.0
VELOCITY (fps)	2200	2037	1881	1733	1614	1466
ENERGY (ft.-lbs.)	2042	1750	1492	1266	1099	906
TRAJ: 100 m. zero	-1.5"	0.0	-8.5"	-28.9"	-56.9"	-113.7"
TRAJ: 200 m. zero	-1.5"	4.3"	0.0	-16.0"	-40.5"	-92.3"
TRAJ: 300 m. zero	-1.5"	9.6"	10.7"	0.0	-19.9"	-65.6"
TRAJ: 385 m. zero	-1.5"	14.8"	21.0"	15.5"	0.0	-39.7"
TRAJ: 500 m. zero	-1.5"	22.7"	36.9"	39.3"	30.6"	0.0

30 CALIBER (.308" Dia.) 190 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .286 BALLISTIC COEFFICIENT: .491

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	3100	2884	2678	2481	2320	2112
ENERGY (ft.-lbs.)	4054	3508	3025	2596	2271	1882
TRAJ: 100 m. zero	-1.5"	0.0	-3.5"	-12.8"	-26.0"	-52.9"
TRAJ: 200 m. zero	-1.5"	1.8"	0.0	-7.6"	-19.3"	-44.1"
TRAJ: 300 m. zero	-1.5"	4.3"	5.0"	0.0	-9.6"	-31.5"
TRAJ: 385 m. zero	-1.5"	6.8"	10.0"	7.4"	0.0	-19.1"
TRAJ: 500 m. zero	-1.5"	10.6"	17.6"	18.9"	14.7"	0.0
VELOCITY (fps)	3000	2789	2587	2394	2237	2033
ENERGY (ft.-lbs.)	3796	3280	2823	2418	2110	1743
TRAJ: 100 m. zero	-1.5"	0.0	-3.9"	-13.9"	-28.2"	-57.1"
TRAJ: 200 m. zero	-1.5"	1.9"	0.0	-8.1"	-20.7"	-47.5"
TRAJ: 300 m. zero	-1.5"	4.6"	5.4"	0.0	-10.3"	-33.9"
TRAJ: 385 m. zero	-1.5"	7.3"	10.8"	8.0"	0.0	-20.6"
TRAJ: 500 m. zero	-1.5"	11.4"	19.0"	20.4"	15.8"	0.0
VELOCITY (fps)	2900	2693	2496	2307	2152	1953
ENERGY (ft.-lbs.)	3547	3060	2627	2245	1954	1609
TRAJ: 100 m. zero	-1.5"	0.0	-4.2"	-15.2"	-30.6"	-61.9"
TRAJ: 200 m. zero	-1.5"	2.1"	0.0	-8.8"	-22.4"	-51.3"
TRAJ: 300 m. zero	-1.5"	5.1"	5.9"	0.0	-11.1"	-36.6"
TRAJ: 385 m. zero	-1.5"	7.9"	11.6"	8.6"	0.0	-22.2"
TRAJ: 500 m. zero	-1.5"	12.4"	20.5"	22.0"	17.1"	0.0

RANGE	MUZZLE	100 m.	200 m.	300 m.	385 m.	500 m.
VELOCITY (fps)	2800	2598	2404	2219	2068	1874
ENERGY (ft.-lbs.)	3307	2847	2439	2078	1805	1481
TRAJ: 100 m. zero	-1.5"	0.0	-4.7"	-16.5"	-33.2"	-67.2"
TRAJ: 200 m. zero	-1.5"	2.3"	0.0	-9.5"	-24.2"	-55.5"
TRAJ: 300 m. zero	-1.5"	5.5"	6.4"	0.0	-12.0"	-39.6"
TRAJ: 385 m. zero	-1.5"	8.6"	12.6"	9.3"	0.0	-24.0"
TRAJ: 500 m. zero	-1.5"	13.4"	22.2"	23.8"	18.5"	0.0
VELOCITY (fps)	2700	2502	2313	2132	1984	1795
ENERGY (ft.-lbs.)	3075	2641	2257	1917	1661	1359
TRAJ: 100 m. zero	-1.5"	0.0	-5.2"	-18.1"	-36.2"	-73.2"
TRAJ: 200 m. zero	-1.5"	2.6"	0.0	-10.4"	-26.3"	-60.3"
TRAJ: 300 m. zero	-1.5"	6.0"	6.9"	0.0	-13.0"	-43.0"
TRAJ: 385 m. zero	-1.5"	9.4"	13.7"	10.1"	0.0	-26.1"
TRAJ: 500 m. zero	-1.5"	14.6"	24.1"	25.8"	20.1"	0.0
VELOCITY (fps)	2600	2407	2221	2044	1901	1717
ENERGY (ft.-lbs.)	2851	2443	2081	1763	1524	1243
TRAJ: 100 m. zero	-1.5"	0.0	-5.7"	-19.8"	-39.6"	-79.9"
TRAJ: 200 m. zero	-1.5"	2.8"	0.0	-11.3"	-28.6"	-65.6"
TRAJ: 300 m. zero	-1.5"	6.6"	7.5"	0.0	-14.2"	-46.8"
TRAJ: 385 m. zero	-1.5"	10.3"	14.9"	11.0"	0.0	-28.4"
TRAJ: 500 m. zero	-1.5"	16.0"	26.3"	28.1"	21.9"	0.0
VELOCITY (fps)	2500	2311	2130	1957	1817	1640
ENERGY (ft.-lbs.)	2636	2252	1913	1616	1393	1134
TRAJ: 100 m. zero	-1.5"	0.0	-6.3"	-21.8"	-43.4"	-87.5"
TRAJ: 200 m. zero	-1.5"	3.1"	0.0	-12.3"	-31.3"	-71.7"
TRAJ: 300 m. zero	-1.5"	7.3"	8.2"	0.0	-15.5"	-51.2"
TRAJ: 385 m. zero	-1.5"	11.3"	16.3"	12.1"	0.0	-31.1"
TRAJ: 500 m. zero	-1.5"	17.5"	28.7"	30.7"	23.9"	0.0
VELOCITY (fps)	2400	2215	2038	1870	1735	1564
ENERGY (ft.-lbs.)	2430	2070	1753	1475	1269	1032
TRAJ: 100 m. zero	-1.5"	0.0	-7.0"	-24.0"	-47.8"	-96.1"
TRAJ: 200 m. zero	-1.5"	3.5"	0.0	-13.5"	-34.3"	-78.6"
TRAJ: 300 m. zero	-1.5"	8.0"	9.0"	0.0	-16.9"	-56.1"
TRAJ: 385 m. zero	-1.5"	12.4"	17.8"	13.2"	0.0	-34.1"
TRAJ: 500 m. zero	-1.5"	19.2"	31.5"	33.7"	26.3"	0.0
VELOCITY (fps)	2300	2119	1947	1784	1653	1490
ENERGY (ft.-lbs.)	2231	1895	1599	1343	1153	936
TRAJ: 100 m. zero	-1.5"	0.0	-7.8"	-26.5"	-52.7"	-105.9"
TRAJ: 200 m. zero	-1.5"	3.9"	0.0	-14.9"	-37.7"	-86.5"
TRAJ: 300 m. zero	-1.5"	8.8"	9.9"	0.0	-18.6"	-61.7"
TRAJ: 385 m. zero	-1.5"	13.7"	19.6"	14.5"	0.0	-37.5"
TRAJ: 500 m. zero	-1.5"	21.2"	34.6"	37.0"	28.9"	0.0
VELOCITY (fps)	2200	2024	1857	1699	1573	1418
ENERGY (ft.-lbs.)	2042	1728	1454	1217	1044	848
TRAJ: 100 m. zero	-1.5"	0.0	-8.7"	-29.4"	-58.3"	-117.2"
TRAJ: 200 m. zero	-1.5"	4.3"	0.0	-16.4"	-41.6"	-95.5"
TRAJ: 300 m. zero	-1.5"	9.8"	10.9"	0.0	-20.6"	-68.1"
TRAJ: 385 m. zero	-1.5"	15.2"	21.6"	16.0"	0.0	-41.4"
TRAJ: 500 m. zero	-1.5"	23.4"	38.2"	40.9"	31.9"	0.0

TRAJECTORY TABLES (SHORT RANGE PISTOL)

25 CALIBER (.251" Dia.) 50 GRAIN FULL METAL JACKET ROUND NOSE
SECTIONAL DENSITY: .113 BALLISTIC COEFFICIENT: .116

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	900	871	844	819	795	772	751
ENERGY (ft.-lbs.)	90	84	79	74	70	66	63
TRAJ: 25 yds. zero	-.8"	0.0	-2.1"	-7.2"	-15.5"	-27.3"	-42.7"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.1"	-11.4"	-22.1"	-36.5"
TRAJ: 75 yds. zero	-.8"	2.4"	2.7"	0.0	-6.0"	-15.4"	-28.4"
TRAJ: 100 yds. zero	-.8"	3.9"	5.7"	4.5"	0.0	-7.9"	-19.4"
TRAJ: 125 yds. zero	-.8"	5.5"	8.9"	9.2"	6.3"	0.0	-9.9"
TRAJ: 150 yds. zero	-.8"	7.1"	12.2"	14.2"	12.9"	8.3"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	850	824	800	778	756	735	715
ENERGY (ft.-lbs.)	80	75	71	67	63	60	57
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.2"	-17.5"	-30.7"	-47.9"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.6"	-12.8"	-24.7"	-40.7"
TRAJ: 75 yds. zero	-.8"	2.7"	3.1"	0.0	-6.6"	-17.1"	-31.5"
TRAJ: 100 yds. zero	-.8"	4.4"	6.4"	5.0"	0.0	-8.8"	-21.6"
TRAJ: 125 yds. zero	-.8"	6.1"	9.9"	10.3"	7.0"	0.0	-11.0"
TRAJ: 150 yds. zero	-.8"	8.0"	13.6"	15.8"	14.4"	9.2"	0.0
VELOCITY (fps)	800	777	756	735	715	696	677
ENERGY (ft.-lbs.)	71	67	63	60	57	54	51
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.4"	-20.0"	-34.9"	-54.2"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.2"	-14.4"	-27.9"	-45.8"
TRAJ: 75 yds. zero	-.8"	3.1"	3.5"	0.0	-7.5"	-19.2"	-35.4"
TRAJ: 100 yds. zero	-.8"	5.0"	7.2"	5.6"	0.0	-9.9"	-24.2"
TRAJ: 125 yds. zero	-.8"	7.0"	11.2"	11.5"	7.9"	0.0	-12.4"
TRAJ: 150 yds. zero	-.8"	9.0"	15.3"	17.7"	16.1"	10.3"	0.0
VELOCITY (fps)	750	730	710	691	672	655	637
ENERGY (ft.-lbs.)	62	59	56	53	50	48	45
TRAJ: 25 yds. zero	-.8"	0.0	-3.3"	-10.9"	-23.0"	-40.0"	-62.0"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-6.0"	-16.5"	-31.8"	-52.1"
TRAJ: 75 yds. zero	-.8"	3.6"	4.0"	0.0	-8.5"	-21.9"	-40.2"
TRAJ: 100 yds. zero	-.8"	5.8"	8.2"	6.4"	0.0	-11.2"	-27.5"
TRAJ: 125 yds. zero	-.8"	8.0"	12.7"	13.1"	9.0"	0.0	-14.0"
TRAJ: 150 yds. zero	-.8"	10.3"	17.4"	20.1"	18.3"	11.7"	0.0
VELOCITY (fps)	700	681	663	646	629	612	596
ENERGY (ft.-lbs.)	54	52	49	46	44	42	39
TRAJ: 25 yds. zero	-.8"	0.0	-3.9"	-12.7"	-26.7"	-46.2"	-71.6"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.9"	-19.0"	-36.5"	-59.9"
TRAJ: 75 yds. zero	-.8"	4.2"	4.6"	0.0	-9.8"	-25.1"	-46.2"
TRAJ: 100 yds. zero	-.8"	6.7"	9.5"	7.3"	0.0	-12.9"	-31.5"
TRAJ: 125 yds. zero	-.8"	9.2"	14.6"	15.0"	10.3"	0.0	-16.1"
TRAJ: 150 yds. zero	-.8"	11.9"	20.0"	23.1"	21.0"	13.4"	0.0
VELOCITY (fps)	650	633	616	600	584	568	553
ENERGY (ft.-lbs.)	47	44	42	40	38	36	34
TRAJ: 25 yds. zero	-.8"	0.0	-4.6"	-15.0"	-31.4"	-54.1"	-83.6"
TRAJ: 50 yds. zero	-.8"	2.3"	0.0	-8.0"	-22.1"	-42.5"	-69.7"
TRAJ: 75 yds. zero	-.8"	5.0"	5.4"	0.0	-11.4"	-29.1"	-53.7"
TRAJ: 100 yds. zero	-.8"	7.8"	11.1"	8.6"	0.0	-14.9"	-36.5"
TRAJ: 125 yds. zero	-.8"	10.8"	17.0"	17.5"	11.9"	0.0	-18.7"
TRAJ: 150 yds. zero	-.8"	13.9"	23.2"	26.8"	24.4"	15.6"	0.0
VELOCITY (fps)	600	584	569	554	539	524	510
ENERGY (ft.-lbs.)	40	38	36	34	32	31	29
TRAJ: 25 yds. zero	-.8"	0.0	-5.6"	-17.8"	-37.2"	-64.1"	-98.7"
TRAJ: 50 yds. zero	-.8"	2.8"	0.0	-9.5"	-26.1"	-50.2"	-82.1"
TRAJ: 75 yds. zero	-.8"	5.9"	6.3"	0.0	-13.4"	-34.3"	-63.1"
TRAJ: 100 yds. zero	-.8"	9.3"	13.0"	10.1"	0.0	-17.6"	-43.0"
TRAJ: 125 yds. zero	-.8"	12.8"	20.1"	20.6"	14.0"	0.0	-21.9"
TRAJ: 150 yds. zero	-.8"	16.5"	27.4"	31.5"	28.6"	18.2"	0.0

25 CALIBER (.251" Dia.) 50 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .113 BALLISTIC COEFFICIENT: .108

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	900	869	840	813	788	764	742
ENERGY (ft.-lbs.)	90	84	78	73	69	65	61
TRAJ: 25 yds. zero	-.8"	0.0	-2.1"	-7.2"	-15.7"	-27.6"	-43.2"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.1"	-11.5"	-22.4"	-37.0"
TRAJ: 75 yds. zero	-.8"	2.4"	2.7"	0.0	-6.0"	-15.5"	-28.8"
TRAJ: 100 yds. zero	-.8"	3.9"	5.8"	4.5"	0.0	-8.0"	-19.7"
TRAJ: 125 yds. zero	-.8"	5.5"	9.0"	9.3"	6.4"	0.0	-10.1"
TRAJ: 150 yds. zero	-.8"	7.2"	12.3"	14.4"	13.1"	8.4"	0.0
VELOCITY (fps)	850	823	797	773	750	728	707
ENERGY (ft.-lbs.)	80	75	71	66	62	59	55
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.2"	-17.7"	-31.0"	-48.4"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.6"	-12.9"	-25.0"	-41.2"
TRAJ: 75 yds. zero	-.8"	2.7"	3.1"	0.0	-6.7"	-17.3"	-32.0"
TRAJ: 100 yds. zero	-.8"	4.4"	6.4"	5.0"	0.0	-8.9"	-21.9"
TRAJ: 125 yds. zero	-.8"	6.2"	10.0"	10.4"	7.1"	0.0	-11.2"
TRAJ: 150 yds. zero	-.8"	8.1"	13.7"	16.0"	14.6"	9.3"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	800	776	753	730	709	689	669
ENERGY (ft.-lbs.)	71	67	63	59	56	53	50
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.4"	-20.2"	-35.2"	-54.8"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.2"	-14.5"	-28.2"	-46.3"
TRAJ: 75 yds. zero	-.8"	3.1"	3.5"	0.0	-7.6"	-19.4"	-35.9"
TRAJ: 100 yds. zero	-.8"	5.0"	7.3"	5.7"	0.0	-10.0"	-24.5"
TRAJ: 125 yds. zero	-.8"	7.0"	11.3"	11.7"	8.0"	0.0	-12.5"
TRAJ: 150 yds. zero	-.8"	9.1"	15.4"	17.9"	16.4"	10.5"	0.0
VELOCITY (fps)	750	728	707	687	667	648	630
ENERGY (ft.-lbs.)	62	59	55	52	49	47	44
TRAJ: 25 yds. zero	-.8"	0.0	-3.3"	-10.9"	-23.2"	-40.3"	-62.6"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-6.0"	-16.6"	-32.1"	-52.7"
TRAJ: 75 yds. zero	-.8"	3.6"	4.0"	0.0	-8.6"	-22.1"	-40.7"
TRAJ: 100 yds. zero	-.8"	5.8"	8.3"	6.4"	0.0	-11.3"	-27.8"
TRAJ: 125 yds. zero	-.8"	8.1"	12.8"	13.2"	9.1"	0.0	-14.2"
TRAJ: 150 yds. zero	-.8"	10.4"	17.6"	20.4"	18.5"	11.8"	0.0
VELOCITY (fps)	700	680	661	642	624	606	589
ENERGY (ft.-lbs.)	54	51	48	46	43	41	38
TRAJ: 25 yds. zero	-.8"	0.0	-3.9"	-12.8"	-26.9"	-46.7"	-72.3"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.9"	-19.1"	-36.9"	-60.6"
TRAJ: 75 yds. zero	-.8"	4.3"	4.6"	0.0	-9.9"	-25.4"	-46.7"
TRAJ: 100 yds. zero	-.8"	6.7"	9.6"	7.4"	0.0	-13.0"	-31.9"
TRAJ: 125 yds. zero	-.8"	9.3"	14.8"	15.2"	10.4"	0.0	-16.3"
TRAJ: 150 yds. zero	-.8"	12.0"	20.2"	23.4"	21.3"	13.6"	0.0
VELOCITY (fps)	650	632	614	596	579	563	547
ENERGY (ft.-lbs.)	47	44	42	39	37	35	33
TRAJ: 25 yds. zero	-.8"	0.0	-4.7"	-15.1"	-31.6"	-54.6"	-84.4"
TRAJ: 50 yds. zero	-.8"	2.3"	0.0	-8.1"	-22.3"	-43.0"	-70.5"
TRAJ: 75 yds. zero	-.8"	5.0"	5.4"	0.0	-11.5"	-29.5"	-54.3"
TRAJ: 100 yds. zero	-.8"	7.9"	11.1"	8.6"	0.0	-15.1"	-37.1"
TRAJ: 125 yds. zero	-.8"	10.9"	17.2"	17.7"	12.1"	0.0	-18.9"
TRAJ: 150 yds. zero	-.8"	14.1"	23.5"	27.1"	24.7"	15.8"	0.0
VELOCITY (fps)	600	583	566	550	535	519	504
ENERGY (ft.-lbs.)	40	38	36	34	32	30	28
TRAJ: 25 yds. zero	-.8"	0.0	-5.6"	-17.9"	-37.5"	-64.6"	-99.8"
TRAJ: 50 yds. zero	-.8"	2.8"	0.0	-9.5"	-26.3"	-50.6"	-83.1"
TRAJ: 75 yds. zero	-.8"	6.0"	6.4"	0.0	-13.6"	-34.7"	-64.0"
TRAJ: 100 yds. zero	-.8"	9.4"	13.2"	10.2"	0.0	-17.7"	-43.6"
TRAJ: 125 yds. zero	-.8"	12.9"	20.2"	20.8"	14.2"	0.0	-22.3"
TRAJ: 150 yds. zero	-.8"	16.6"	27.7"	32.0"	29.1"	18.6"	0.0

30 CALIBER (.308" Dia.) 110 GRAIN ROUND NOSE
SECTIONAL DENSITY: .166 BALLISTIC COEFFICIENT: .256

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1400	1347	1297	1250	1207	1167	1132
ENERGY (ft.-lbs.)	479	443	411	382	356	333	313
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.1"	-5.2"	-9.7"	-15.9"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.4"	-8.7"	-14.7"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.4"	-6.3"	-11.7"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.3"	-8.2"
TRAJ: 125 yds. zero	-.8"	1.9"	3.5"	3.8"	2.6"	0.0	-4.2"
TRAJ: 150 yds. zero	-.8"	2.6"	4.9"	5.9"	5.4"	3.5"	0.0
VELOCITY (fps)	1350	1300	1253	1209	1170	1134	1102
ENERGY (ft.-lbs.)	445	413	383	357	334	314	297
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.4"	-5.7"	-10.7"	-17.3"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.4"	-15.8"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.6"	-6.7"	-12.6"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	1.9"	0.0	-3.5"	-8.7"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.0"	2.8"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.9"	5.3"	6.3"	5.8"	3.7"	0.0
VELOCITY (fps)	1300	1253	1210	1170	1134	1102	1074
ENERGY (ft.-lbs.)	413	383	357	334	314	297	281
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.6"	-6.3"	-11.6"	-18.8"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.1"	-10.2"	-17.0"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.8"	-7.2"	-13.5"
TRAJ: 100 yds. zero	-.8"	1.6"	2.6"	2.1"	0.0	-3.8"	-9.3"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.3"	3.0"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	3.1"	5.7"	6.7"	6.2"	4.0"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1250	1207	1168	1132	1100	1072	1046
ENERGY (ft.-lbs.)	382	356	333	313	296	281	267
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.0"	-6.9"	-12.7"	-20.4"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.6"	-11.0"	-18.3"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.0"	-7.8"	-14.4"
TRAJ: 100 yds. zero	-.8"	1.7"	2.8"	2.2"	0.0	-4.0"	-9.9"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.2"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	3.4"	6.1"	7.2"	6.6"	4.3"	0.0
VELOCITY (fps)	1200	1161	1126	1095	1067	1042	1020
ENERGY (ft.-lbs.)	352	329	310	293	278	265	254
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.3"	-7.7"	-13.9"	-22.1"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.0"	-11.9"	-19.7"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.2"	-8.3"	-15.4"
TRAJ: 100 yds. zero	-.8"	1.9"	3.0"	2.4"	0.0	-4.3"	-10.6"
TRAJ: 125 yds. zero	-.8"	2.8"	4.7"	5.0"	3.5"	0.0	-5.4"
TRAJ: 150 yds. zero	-.8"	3.7"	6.6"	7.7"	7.1"	4.5"	0.0
VELOCITY (fps)	1150	1116	1086	1059	1035	1013	993
ENERGY (ft.-lbs.)	323	304	288	274	262	251	241
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.7"	-8.4"	-15.2"	-24.0"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.3"	-6.6"	-12.8"	-21.2"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.5"	-9.0"	-16.6"
TRAJ: 100 yds. zero	-.8"	2.1"	3.3"	2.6"	0.0	-4.6"	-11.4"
TRAJ: 125 yds. zero	-.8"	3.0"	5.1"	5.4"	3.7"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	4.0"	7.1"	8.3"	7.6"	4.8"	0.0
VELOCITY (fps)	1100	1072	1046	1023	1002	983	965
ENERGY (ft.-lbs.)	295	280	267	256	245	236	227
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.2"	-9.3"	-16.6"	-26.2"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.1"	-13.9"	-22.9"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.8"	-9.7"	-17.8"
TRAJ: 100 yds. zero	-.8"	2.3"	3.6"	2.8"	0.0	-5.0"	-12.2"
TRAJ: 125 yds. zero	-.8"	3.3"	5.6"	5.8"	4.0"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.4"	7.6"	8.9"	8.1"	5.2"	0.0
VELOCITY (fps)	1050	1027	1005	986	967	950	934
ENERGY (ft.-lbs.)	269	257	247	237	229	221	213
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.7"	-10.3"	-18.3"	-28.6"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-7.8"	-15.1"	-24.8"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.1"	-10.5"	-19.3"
TRAJ: 100 yds. zero	-.8"	2.6"	3.9"	3.1"	0.0	-5.4"	-13.2"
TRAJ: 125 yds. zero	-.8"	3.7"	6.0"	6.3"	4.3"	0.0	-6.7"
TRAJ: 150 yds. zero	-.8"	4.8"	8.3"	9.6"	8.8"	5.6"	0.0
VELOCITY (fps)	1000	981	963	946	930	916	901
ENERGY (ft.-lbs.)	244	235	226	219	211	205	198
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.3"	-11.5"	-20.2"	-31.5"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.6"	-16.6"	-27.1"
TRAJ: 75 yds. zero	-.8"	1.8"	2.0"	0.0	-4.5"	-11.4"	-21.0"
TRAJ: 100 yds. zero	-.8"	2.9"	4.3"	3.3"	0.0	-5.9"	-14.3"
TRAJ: 125 yds. zero	-.8"	4.0"	6.6"	6.9"	4.7"	0.0	-7.3"
TRAJ: 150 yds. zero	-.8"	5.3"	9.0"	10.5"	9.5"	6.1"	0.0
VELOCITY (fps)	950	934	919	905	891	878	865
ENERGY (ft.-lbs.)	220	213	206	200	194	188	183
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-5.9"	-12.9"	-22.5"	-35.0"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.4"	-9.5"	-18.3"	-29.9"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-4.9"	-12.6"	-23.1"
TRAJ: 100 yds. zero	-.8"	3.2"	4.7"	3.7"	0.0	-6.4"	-15.7"
TRAJ: 125 yds. zero	-.8"	4.5"	7.3"	7.6"	5.2"	0.0	-8.0"
TRAJ: 150 yds. zero	-.8"	5.8"	10.0"	11.5"	10.5"	6.6"	0.0

32 CALIBER (.311" Dia.) 71 GRAIN FULL METAL JACKET ROUND NOSE
SECTIONAL DENSITY: .105 BALLISTIC COEFFICIENT: .118

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	960	925	894	866	840	815
ENERGY (ft.-lbs.)	158	145	135	126	118	111	105
TRAJ: 25 yds. zero	-.8"	0.0	-1.6"	-5.6"	-12.4"	-22.1"	-34.9"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.3"	-9.3"	-18.2"	-30.2"
TRAJ: 75 yds. zero	-.8"	1.9"	2.2"	0.0	-4.9"	-12.7"	-23.6"
TRAJ: 100 yds. zero	-.8"	3.1"	4.7"	3.7"	0.0	-6.6"	-16.2"
TRAJ: 125 yds. zero	-.8"	4.4"	7.3"	7.6"	5.3"	0.0	-8.3"
TRAJ: 150 yds. zero	-.8"	5.8"	10.1"	11.8"	10.8"	6.9"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	950	916	886	859	833	809	786
ENERGY (ft.-lbs.)	142	132	124	116	109	103	97
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.3"	-13.8"	-24.4"	-38.4"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.7"	-10.3"	-20.0"	-33.0"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.4"	-13.9"	-25.7"
TRAJ: 100 yds. zero	-.8"	3.5"	5.1"	4.0"	0.0	-7.2"	-17.6"
TRAJ: 125 yds. zero	-.8"	4.9"	8.0"	8.3"	5.7"	0.0	-9.0"
TRAJ: 150 yds. zero	-.8"	6.4"	11.0"	12.9"	11.8"	7.5"	0.0
VELOCITY (fps)	900	871	845	820	797	774	753
ENERGY (ft.-lbs.)	128	120	112	106	100	95	89
TRAJ: 25 yds. zero	-.8"	0.0	-2.1"	-7.2"	-15.5"	-27.3"	-42.6"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.1"	-11.4"	-22.1"	-36.4"
TRAJ: 75 yds. zero	-.8"	2.4"	2.7"	0.0	-6.0"	-15.3"	-28.3"
TRAJ: 100 yds. zero	-.8"	3.9"	5.7"	4.5"	0.0	-7.9"	-19.4"
TRAJ: 125 yds. zero	-.8"	5.5"	8.8"	9.2"	6.3"	0.0	-9.9"
TRAJ: 150 yds. zero	-.8"	7.1"	12.1"	14.1"	12.9"	8.3"	0.0
VELOCITY (fps)	850	825	801	779	757	737	717
ENERGY (ft.-lbs.)	114	107	101	96	90	86	81
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.2"	-17.5"	-30.6"	-47.8"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.6"	-12.7"	-24.7"	-40.6"
TRAJ: 75 yds. zero	-.8"	2.7"	3.1"	0.0	-6.6"	-17.0"	-31.5"
TRAJ: 100 yds. zero	-.8"	4.4"	6.4"	5.0"	0.0	-8.8"	-21.5"
TRAJ: 125 yds. zero	-.8"	6.1"	9.9"	10.2"	7.0"	0.0	-11.0"
TRAJ: 150 yds. zero	-.8"	8.0"	13.5"	15.7"	14.3"	9.2"	0.0
VELOCITY (fps)	800	778	756	736	716	697	679
ENERGY (ft.-lbs.)	101	95	90	85	81	77	73
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.4"	-20.0"	-34.8"	-54.1"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.2"	-14.4"	-27.8"	-45.7"
TRAJ: 75 yds. zero	-.8"	3.1"	3.5"	0.0	-7.5"	-19.2"	-35.3"
TRAJ: 100 yds. zero	-.8"	5.0"	7.2"	5.6"	0.0	-9.8"	-24.1"
TRAJ: 125 yds. zero	-.8"	7.0"	11.1"	11.5"	7.9"	0.0	-12.3"
TRAJ: 150 yds. zero	-.8"	9.0"	15.2"	17.7"	16.1"	10.3"	0.0
VELOCITY (fps)	750	730	710	692	674	656	639
ENERGY (ft.-lbs.)	89	84	80	75	72	68	64
TRAJ: 25 yds. zero	-.8"	0.0	-3.3"	-10.9"	-23.0"	-39.9"	-61.8"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.9"	-16.4"	-31.7"	-52.0"
TRAJ: 75 yds. zero	-.8"	3.6"	4.0"	0.0	-8.5"	-21.8"	-40.1"
TRAJ: 100 yds. zero	-.8"	5.7"	8.2"	6.4"	0.0	-11.2"	-27.4"
TRAJ: 125 yds. zero	-.8"	8.0"	12.7"	13.1"	8.9"	0.0	-14.0"
TRAJ: 150 yds. zero	-.8"	10.3"	17.3"	20.1"	18.2"	11.6"	0.0
VELOCITY (fps)	700	682	664	647	630	613	597
ENERGY (ft.-lbs.)	77	73	69	66	62	59	56
TRAJ: 25 yds. zero	-.8"	0.0	-3.9"	-12.7"	-26.7"	-46.2"	-71.4"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.9"	-18.9"	-36.5"	-59.8"
TRAJ: 75 yds. zero	-.8"	4.2"	4.6"	0.0	-9.7"	-25.0"	-46.0"
TRAJ: 100 yds. zero	-.8"	6.7"	9.5"	7.3"	0.0	-12.8"	-31.4"
TRAJ: 125 yds. zero	-.8"	9.2"	14.6"	15.0"	10.3"	0.0	-16.0"
TRAJ: 150 yds. zero	-.8"	11.9"	19.9"	23.0"	21.0"	13.4"	0.0

32 CALIBER (.312" Dia.) 85 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .125 BALLISTIC COEFFICIENT: .145

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1200	1134	1080	1035	998	965	936
ENERGY (ft.-lbs.)	272	243	220	202	188	176	165
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.6"	-8.4"	-15.3"	-24.6"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.3"	-6.6"	-13.1"	-21.9"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.6"	-9.3"	-17.3"
TRAJ: 100 yds. zero	-.8"	2.1"	3.3"	2.7"	0.0	-4.8"	-12.0"
TRAJ: 125 yds. zero	-.8"	3.1"	5.2"	5.6"	3.9"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.1"	7.3"	8.6"	8.0"	5.1"	0.0
VELOCITY (fps)	1150	1093	1046	1007	973	943	916
ENERGY (ft.-lbs.)	250	225	206	191	179	168	158
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-4.0"	-9.1"	-16.6"	-26.4"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.1"	-14.0"	-23.3"
TRAJ: 75 yds. zero	-.8"	1.3"	1.7"	0.0	-3.8"	-9.9"	-18.4"
TRAJ: 100 yds. zero	-.8"	2.3"	3.6"	2.8"	0.0	-5.1"	-12.7"
TRAJ: 125 yds. zero	-.8"	3.3"	5.6"	5.9"	4.1"	0.0	-6.5"
TRAJ: 150 yds. zero	-.8"	4.4"	7.8"	9.2"	8.4"	5.4"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1100	1052	1012	977	947	919	894
ENERGY (ft.-lbs.)	228	209	193	180	169	160	151
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.4"	-10.0"	-17.9"	-28.5"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.7"	-15.0"	-25.0"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.1"	-10.5"	-19.6"
TRAJ: 100 yds. zero	-.8"	2.5"	3.8"	3.1"	0.0	-5.5"	-13.5"
TRAJ: 125 yds. zero	-.8"	3.6"	6.0"	6.3"	4.4"	0.0	-6.9"
TRAJ: 150 yds. zero	-.8"	4.7"	8.3"	9.8"	9.0"	5.8"	0.0
VELOCITY (fps)	1050	1010	976	946	918	893	870
ENERGY (ft.-lbs.)	208	193	180	169	159	151	143
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.9"	-11.0"	-19.6"	-30.8"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-2.9"	-8.3"	-16.2"	-26.9"
TRAJ: 75 yds. zero	-.8"	1.6"	2.0"	0.0	-4.4"	-11.3"	-21.0"
TRAJ: 100 yds. zero	-.8"	2.7"	4.2"	3.3"	0.0	-5.9"	-14.4"
TRAJ: 125 yds. zero	-.8"	3.9"	6.5"	6.8"	4.7"	0.0	-7.4"
TRAJ: 150 yds. zero	-.8"	5.1"	9.0"	10.5"	9.6"	6.2"	0.0
VELOCITY (fps)	1000	967	938	911	887	864	843
ENERGY (ft.-lbs.)	189	176	166	157	148	141	134
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.5"	-12.1"	-21.5"	-33.7"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-9.1"	-17.7"	-29.2"
TRAJ: 75 yds. zero	-.8"	1.8"	2.2"	0.0	-4.8"	-12.3"	-22.7"
TRAJ: 100 yds. zero	-.8"	3.0"	4.5"	3.6"	0.0	-6.3"	-15.6"
TRAJ: 125 yds. zero	-.8"	4.3"	7.1"	7.4"	5.1"	0.0	-8.0"
TRAJ: 150 yds. zero	-.8"	5.6"	9.7"	11.4"	10.4"	6.6"	0.0
VELOCITY (fps)	950	922	897	874	852	831	812
ENERGY (ft.-lbs.)	170	161	152	144	137	130	124
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.2"	-13.5"	-23.8"	-37.2"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.6"	-10.0"	-19.4"	-31.9"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.2"	-13.4"	-24.8"
TRAJ: 100 yds. zero	-.8"	3.4"	5.0"	3.9"	0.0	-6.9"	-16.9"
TRAJ: 125 yds. zero	-.8"	4.8"	7.8"	8.1"	5.5"	0.0	-8.7"
TRAJ: 150 yds. zero	-.8"	6.2"	10.6"	12.4"	11.3"	7.2"	0.0
VELOCITY (fps)	900	876	854	834	814	795	777
ENERGY (ft.-lbs.)	153	145	138	131	125	119	114
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.0"	-15.2"	-26.6"	-41.4"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.1"	-21.5"	-35.3"
TRAJ: 75 yds. zero	-.8"	2.3"	2.7"	0.0	-5.8"	-14.8"	-27.3"
TRAJ: 100 yds. zero	-.8"	3.8"	5.5"	4.3"	0.0	-7.6"	-18.7"
TRAJ: 125 yds. zero	-.8"	5.3"	8.6"	8.9"	6.1"	0.0	-9.5"
TRAJ: 150 yds. zero	-.8"	6.9"	11.8"	13.7"	12.4"	7.9"	0.0
VELOCITY (fps)	850	829	810	791	773	756	739
ENERGY (ft.-lbs.)	136	130	124	118	113	108	103
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.0"	-17.2"	-29.9"	-46.5"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.5"	-12.5"	-24.0"	-39.4"
TRAJ: 75 yds. zero	-.8"	2.7"	3.0"	0.0	-6.5"	-16.6"	-30.4"
TRAJ: 100 yds. zero	-.8"	4.3"	6.2"	4.8"	0.0	-8.5"	-20.7"
TRAJ: 125 yds. zero	-.8"	6.0"	9.6"	9.9"	6.8"	0.0	-10.6"
TRAJ: 150 yds. zero	-.8"	7.7"	13.1"	15.2"	13.8"	8.8"	0.0
VELOCITY (fps)	800	782	764	747	731	715	700
ENERGY (ft.-lbs.)	121	115	110	105	101	96	92
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.2"	-19.6"	-34.0"	-52.7"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.1"	-14.1"	-27.1"	-44.4"
TRAJ: 75 yds. zero	-.8"	3.1"	3.4"	0.0	-7.3"	-18.6"	-34.2"
TRAJ: 100 yds. zero	-.8"	4.9"	7.0"	5.5"	0.0	-9.5"	-23.3"
TRAJ: 125 yds. zero	-.8"	6.8"	10.9"	11.2"	7.6"	0.0	-11.8"
TRAJ: 150 yds. zero	-.8"	8.8"	14.8"	17.1"	15.5"	9.9"	0.0
VELOCITY (fps)	750	734	718	702	687	672	658
ENERGY (ft.-lbs.)	106	102	97	93	89	85	82
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.7"	-22.5"	-39.0"	-60.2"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.8"	-16.1"	-30.9"	-50.5"
TRAJ: 75 yds. zero	-.8"	3.6"	3.9"	0.0	-8.3"	-21.2"	-38.9"
TRAJ: 100 yds. zero	-.8"	5.6"	8.0"	6.2"	0.0	-10.8"	-26.4"
TRAJ: 125 yds. zero	-.8"	7.8"	12.4"	12.7"	8.6"	0.0	-13.5"
TRAJ: 150 yds. zero	-.8"	10.0"	16.8"	19.4"	17.6"	11.2"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	700	685	670	656	642	629	615
ENERGY (ft.-lbs.)	92	89	85	81	78	75	71
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.5"	-26.2"	-45.1"	-69.6"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.8"	-18.6"	-35.6"	-58.2"
TRAJ: 75 yds. zero	-.8"	4.2"	4.5"	0.0	-9.5"	-24.3"	-44.6"
TRAJ: 100 yds. zero	-.8"	6.5"	9.3"	7.2"	0.0	-12.4"	-30.3"
TRAJ: 125 yds. zero	-.8"	9.0"	14.2"	14.6"	9.9"	0.0	-15.5"
TRAJ: 150 yds. zero	-.8"	11.6"	19.4"	22.3"	20.2"	12.9"	0.0
VELOCITY (fps)	650	636	623	610	597	584	572
ENERGY (ft.-lbs.)	80	76	73	70	67	64	62
TRAJ: 25 yds. zero	-.8"	0.0	-4.6"	-14.7"	-30.7"	-52.8"	-81.3"
TRAJ: 50 yds. zero	-.8"	2.3"	0.0	-7.9"	-21.6"	-41.5"	-67.6"
TRAJ: 75 yds. zero	-.8"	4.9"	5.3"	0.0	-11.1"	-28.3"	-51.9"
TRAJ: 100 yds. zero	-.8"	7.7"	10.8"	8.3"	0.0	-14.4"	-35.2"
TRAJ: 125 yds. zero	-.8"	10.6"	16.6"	17.0"	11.5"	0.0	-17.9"
TRAJ: 150 yds. zero	-.8"	13.5"	22.5"	25.9"	23.4"	14.9"	0.0
VELOCITY (fps)	600	587	575	563	551	539	527
ENERGY (ft.-lbs.)	68	65	62	60	57	55	52
TRAJ: 25 yds. zero	-.8"	0.0	-5.5"	-17.6"	-36.5"	-62.6"	-96.2"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.3"	-25.5"	-48.8"	-79.7"
TRAJ: 75 yds. zero	-.8"	5.9"	6.2"	0.0	-13.1"	-33.3"	-61.0"
TRAJ: 100 yds. zero	-.8"	9.1"	12.7"	9.8"	0.0	-17.0"	-41.4"
TRAJ: 125 yds. zero	-.8"	12.5"	19.5"	20.0"	13.6"	0.0	-21.1"
TRAJ: 150 yds. zero	-.8"	16.0"	26.6"	30.5"	27.6"	17.6"	0.0

32 CALIBER (.314" Dia.) 90 GRAIN LEAD HOLLOW BASE WADCUTTER
SECTIONAL DENSITY: .130 BALLISTIC COEFFICIENT: .040

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1100	958	866	793	731	675	625
ENERGY (ft.-lbs.)	242	183	150	126	107	91	78
TRAJ: 25 yds. zero	-.8"	0.0	-1.6"	-6.0"	-13.8"	-25.6"	-42.0"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.6"	-10.7"	-21.7"	-37.3"
TRAJ: 75 yds. zero	-.8"	2.0"	2.4"	0.0	-5.8"	-15.6"	-30.0"
TRAJ: 100 yds. zero	-.8"	3.4"	5.3"	4.4"	0.0	-8.3"	-21.3"
TRAJ: 125 yds. zero	-.8"	5.1"	8.7"	9.4"	6.7"	0.0	-11.3"
TRAJ: 150 yds. zero	-.8"	7.0"	12.4"	15.0"	14.2"	9.4"	0.0
VELOCITY (fps)	1050	928	843	774	714	660	611
ENERGY (ft.-lbs.)	220	172	142	120	102	87	75
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.5"	-14.8"	-27.3"	-44.6"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.9"	-11.3"	-23.0"	-39.5"
TRAJ: 75 yds. zero	-.8"	2.2"	2.6"	0.0	-6.2"	-16.5"	-31.7"
TRAJ: 100 yds. zero	-.8"	3.7"	5.7"	4.6"	0.0	-8.8"	-22.5"
TRAJ: 125 yds. zero	-.8"	5.5"	9.2"	9.9"	7.0"	0.0	-11.9"
TRAJ: 150 yds. zero	-.8"	7.4"	13.2"	15.9"	15.0"	9.9"	0.0
VELOCITY (fps)	1000	896	818	752	695	643	594
ENERGY (ft.-lbs.)	200	160	134	113	96	82	71
TRAJ: 25 yds. zero	-.8"	0.0	-1.9"	-7.0"	-16.0"	-29.3"	-47.9"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.2"	-12.2"	-24.6"	-42.2"
TRAJ: 75 yds. zero	-.8"	2.3"	2.8"	0.0	-6.6"	-17.6"	-33.8"
TRAJ: 100 yds. zero	-.8"	4.0"	6.1"	4.9"	0.0	-9.4"	-23.9"
TRAJ: 125 yds. zero	-.8"	5.9"	9.8"	10.6"	7.5"	0.0	-12.7"
TRAJ: 150 yds. zero	-.8"	8.0"	14.1"	16.9"	16.0"	10.6"	0.0
VELOCITY (fps)	950	860	788	727	672	621	575
ENERGY (ft.-lbs.)	180	148	124	105	90	77	66
TRAJ: 25 yds. zero	-.8"	0.0	-2.1"	-7.8"	-17.5"	-31.9"	-52.0"
TRAJ: 50 yds. zero	-.8"	1.1"	0.0	-4.6"	-13.2"	-26.6"	-45.6"
TRAJ: 75 yds. zero	-.8"	2.6"	3.0"	0.0	-7.1"	-19.0"	-36.5"
TRAJ: 100 yds. zero	-.8"	4.4"	6.6"	5.3"	0.0	-10.1"	-25.8"
TRAJ: 125 yds. zero	-.8"	6.4"	10.6"	11.4"	8.1"	0.0	-13.7"
TRAJ: 150 yds. zero	-.8"	8.7"	15.2"	18.2"	17.2"	11.4"	0.0
VELOCITY (fps)	900	821	755	697	645	597	552
ENERGY (ft.-lbs.)	162	135	114	97	83	71	61
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.6"	-19.3"	-35.2"	-57.1"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-5.0"	-14.5"	-29.1"	-49.8"
TRAJ: 75 yds. zero	-.8"	2.9"	3.3"	0.0	-7.8"	-20.8"	-39.8"
TRAJ: 100 yds. zero	-.8"	4.8"	7.2"	5.8"	0.0	-11.0"	-28.1"
TRAJ: 125 yds. zero	-.8"	7.0"	11.7"	12.5"	8.8"	0.0	-14.9"
TRAJ: 150 yds. zero	-.8"	9.5"	16.6"	19.9"	18.7"	12.4"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	850	780	719	665	615	569	526
ENERGY (ft.-lbs.)	144	122	103	88	76	65	55
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.7"	-21.6"	-39.2"	-63.5"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.6"	-16.1"	-32.3"	-55.1"
TRAJ: 75 yds. zero	-.8"	3.2"	3.7"	0.0	-8.6"	-23.0"	-44.0"
TRAJ: 100 yds. zero	-.8"	5.4"	8.0"	6.5"	0.0	-12.2"	-31.0"
TRAJ: 125 yds. zero	-.8"	7.8"	12.9"	13.8"	9.7"	0.0	-16.4"
TRAJ: 150 yds. zero	-.8"	10.6"	18.4"	22.0"	20.7"	13.7"	0.0
VELOCITY (fps)	800	737	681	630	583	539	498
ENERGY (ft.-lbs.)	128	109	93	79	68	58	50
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-11.1"	-24.5"	-44.2"	-71.4"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-6.3"	-18.0"	-36.2"	-61.8"
TRAJ: 75 yds. zero	-.8"	3.7"	4.2"	0.0	-9.7"	-25.7"	-49.2"
TRAJ: 100 yds. zero	-.8"	6.1"	9.0"	7.3"	0.0	-13.6"	-34.7"
TRAJ: 125 yds. zero	-.8"	8.8"	14.5"	15.4"	10.9"	0.0	-18.4"
TRAJ: 150 yds. zero	-.8"	11.9"	20.6"	24.6"	23.1"	15.3"	0.0
VELOCITY (fps)	750	693	641	593	548	507	468
ENERGY (ft.-lbs.)	112	96	82	70	60	51	44
TRAJ: 25 yds. zero	-.8"	0.0	-3.7"	-12.8"	-28.0"	-50.4"	-81.3"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-7.2"	-20.5"	-41.1"	-70.1"
TRAJ: 75 yds. zero	-.8"	4.3"	4.8"	0.0	-11.0"	-29.1"	-55.7"
TRAJ: 100 yds. zero	-.8"	7.0"	10.3"	8.2"	0.0	-15.4"	-39.3"
TRAJ: 125 yds. zero	-.8"	10.1"	16.4"	17.5"	12.4"	0.0	-20.8"
TRAJ: 150 yds. zero	-.8"	13.5"	23.4"	27.9"	26.2"	17.3"	0.0
VELOCITY (fps)	700	647	599	554	512	473	436
ENERGY (ft.-lbs.)	98	84	72	61	52	45	38
TRAJ: 25 yds. zero	-.8"	0.0	-4.4"	-14.8"	-32.4"	-58.2"	-93.7"
TRAJ: 50 yds. zero	-.8"	2.2"	0.0	-8.3"	-23.6"	-47.2"	-80.5"
TRAJ: 75 yds. zero	-.8"	4.9"	5.5"	0.0	-12.6"	-33.4"	-64.0"
TRAJ: 100 yds. zero	-.8"	8.1"	11.8"	9.4"	0.0	-17.7"	-45.1"
TRAJ: 125 yds. zero	-.8"	11.6"	18.9"	20.1"	14.2"	0.0	-23.9"
TRAJ: 150 yds. zero	-.8"	15.6"	26.8"	32.0"	30.1"	19.9"	0.0

32 CALIBER (.314" Dia.) 90 GRAIN LEAD SEMI-WADCUTTER
SECTIONAL DENSITY: .130 BALLISTIC COEFFICIENT: .096

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1100	1030	977	932	893	859	828
ENERGY (ft.-lbs.)	242	212	191	174	160	147	137
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.8"	-10.8"	-19.4"	-31.0"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.9"	-8.3"	-16.3"	-27.3"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.4"	-11.5"	-21.5"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.3"	0.0	-6.0"	-14.9"
TRAJ: 125 yds. zero	-.8"	3.9"	6.5"	6.9"	4.8"	0.0	-7.7"
TRAJ: 150 yds. zero	-.8"	5.2"	9.1"	10.8"	9.9"	6.4"	0.0
VELOCITY (fps)	1050	992	945	905	869	837	807
ENERGY (ft.-lbs.)	220	197	178	164	151	140	130
TRAJ: 25 yds. zero	-.8"	0.0	-1.4"	-5.2"	-11.7"	-21.0"	-33.4"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.9"	-17.5"	-29.2"
TRAJ: 75 yds. zero	-.8"	1.7"	2.1"	0.0	-4.7"	-12.3"	-23.0"
TRAJ: 100 yds. zero	-.8"	2.9"	4.4"	3.5"	0.0	-6.4"	-15.9"
TRAJ: 125 yds. zero	-.8"	4.2"	7.0"	7.4"	5.1"	0.0	-8.2"
TRAJ: 150 yds. zero	-.8"	5.6"	9.7"	11.5"	10.6"	6.8"	0.0
VELOCITY (fps)	1000	952	911	875	842	812	784
ENERGY (ft.-lbs.)	200	181	166	153	142	132	123
TRAJ: 25 yds. zero	-.8"	0.0	-1.6"	-5.8"	-12.8"	-22.9"	-36.3"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.4"	-9.7"	-19.0"	-31.5"
TRAJ: 75 yds. zero	-.8"	1.9"	2.3"	0.0	-5.1"	-13.3"	-24.7"
TRAJ: 100 yds. zero	-.8"	3.2"	4.8"	3.8"	0.0	-6.9"	-17.0"
TRAJ: 125 yds. zero	-.8"	4.6"	7.6"	8.0"	5.5"	0.0	-8.8"
TRAJ: 150 yds. zero	-.8"	6.1"	10.5"	12.3"	11.4"	7.3"	0.0
VELOCITY (fps)	950	909	873	841	811	783	756
ENERGY (ft.-lbs.)	180	165	152	141	131	122	114
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.5"	-14.2"	-25.3"	-39.8"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.8"	-10.6"	-20.7"	-34.4"
TRAJ: 75 yds. zero	-.8"	2.2"	2.5"	0.0	-5.6"	-14.4"	-26.8"
TRAJ: 100 yds. zero	-.8"	3.6"	5.3"	4.2"	0.0	-7.5"	-18.5"
TRAJ: 125 yds. zero	-.8"	5.1"	8.3"	8.7"	6.0"	0.0	-9.5"
TRAJ: 150 yds. zero	-.8"	6.6"	11.5"	13.4"	12.3"	7.9"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	900	865	833	804	776	750	726
ENERGY (ft.-lbs.)	162	150	139	129	120	112	105
TRAJ: 25 yds. zero	-.8"	0.0	-2.1"	-7.3"	-15.9"	-28.1"	-44.1"
TRAJ: 50 yds. zero	-.8"	1.1"	0.0	-4.2"	-11.7"	-22.8"	-37.8"
TRAJ: 75 yds. zero	-.8"	2.4"	2.8"	0.0	-6.1"	-15.9"	-29.5"
TRAJ: 100 yds. zero	-.8"	4.0"	5.9"	4.6"	0.0	-8.2"	-20.3"
TRAJ: 125 yds. zero	-.8"	5.6"	9.1"	9.5"	6.6"	0.0	-10.4"
TRAJ: 150 yds. zero	-.8"	7.4"	12.6"	14.7"	13.5"	8.7"	0.0
VELOCITY (fps)	850	819	791	764	739	715	691
ENERGY (ft.-lbs.)	144	134	125	117	109	102	96
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.3"	-18.0"	-31.6"	-49.4"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.7"	-13.1"	-25.5"	-42.1"
TRAJ: 75 yds. zero	-.8"	2.8"	3.1"	0.0	-6.8"	-17.7"	-32.7"
TRAJ: 100 yds. zero	-.8"	4.5"	6.5"	5.1"	0.0	-9.1"	-22.5"
TRAJ: 125 yds. zero	-.8"	6.3"	10.2"	10.6"	7.3"	0.0	-11.5"
TRAJ: 150 yds. zero	-.8"	8.2"	14.0"	16.4"	15.0"	9.6"	0.0
VELOCITY (fps)	800	773	747	722	699	676	655
ENERGY (ft.-lbs.)	128	119	111	104	98	91	86
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.6"	-20.5"	-35.8"	-55.9"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.3"	-14.8"	-28.7"	-47.4"
TRAJ: 75 yds. zero	-.8"	3.2"	3.5"	0.0	-7.7"	-19.8"	-36.7"
TRAJ: 100 yds. zero	-.8"	5.1"	7.4"	5.8"	0.0	-10.2"	-25.2"
TRAJ: 125 yds. zero	-.8"	7.2"	11.5"	11.9"	8.2"	0.0	-12.9"
TRAJ: 150 yds. zero	-.8"	9.3"	15.8"	18.4"	16.8"	10.8"	0.0
VELOCITY (fps)	750	725	702	679	657	636	616
ENERGY (ft.-lbs.)	112	105	98	92	86	81	76
TRAJ: 25 yds. zero	-.8"	0.0	-3.3"	-11.1"	-23.5"	-41.0"	-63.8"
TRAJ: 50 yds. zero	-.8"	1.7"	0.0	-6.1"	-16.9"	-32.7"	-53.8"
TRAJ: 75 yds. zero	-.8"	3.7"	4.0"	0.0	-8.8"	-22.5"	-41.7"
TRAJ: 100 yds. zero	-.8"	5.9"	8.4"	6.6"	0.0	-11.6"	-28.5"
TRAJ: 125 yds. zero	-.8"	8.2"	13.1"	13.5"	9.3"	0.0	-14.6"
TRAJ: 150 yds. zero	-.8"	10.6"	17.9"	20.8"	19.0"	12.2"	0.0
VELOCITY (fps)	700	677	656	635	615	595	576
ENERGY (ft.-lbs.)	98	92	86	81	75	71	66
TRAJ: 25 yds. zero	-.8"	0.0	-3.9"	-12.9"	-27.3"	-47.4"	-73.6"
TRAJ: 50 yds. zero	-.8"	2.0"	0.0	-7.0"	-19.4"	-37.6"	-61.8"
TRAJ: 75 yds. zero	-.8"	4.3"	4.7"	0.0	-10.1"	-25.9"	-47.8"
TRAJ: 100 yds. zero	-.8"	6.8"	9.7"	7.5"	0.0	-13.3"	-32.7"
TRAJ: 125 yds. zero	-.8"	9.5"	15.0"	15.5"	10.6"	0.0	-16.8"
TRAJ: 150 yds. zero	-.8"	12.3"	20.6"	23.9"	21.8"	14.0"	0.0

9MM CALIBER (.355" Dia.) 90 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .102 BALLISTIC COEFFICIENT: .099

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1700	1534	1385	1257	1151	1071	1010
ENERGY (ft.-lbs.)	577	470	384	315	265	229	204
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.4"	-4.0"	-8.3"	-14.4"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.8"	-8.0"	-14.1"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.2"	-6.0"	-11.7"
TRAJ: 100 yds. zero	-.8"	1.0"	1.9"	1.6"	0.0	-3.3"	-8.4"
TRAJ: 125 yds. zero	-.8"	1.7"	3.2"	3.6"	2.6"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.4"	4.7"	5.8"	5.6"	3.7"	0.0
VELOCITY (fps)	1650	1489	1345	1223	1125	1052	995
ENERGY (ft.-lbs.)	544	443	362	299	253	221	198
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.4"	-9.0"	-15.4"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.0"	-8.5"	-14.9"
TRAJ: 75 yds. zero	-.8"	0.5"	0.9"	0.0	-2.3"	-6.3"	-12.3"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.4"	-8.8"
TRAJ: 125 yds. zero	-.8"	1.8"	3.4"	3.8"	2.8"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.6"	5.0"	6.1"	5.9"	3.9"	0.0
VELOCITY (fps)	1600	1444	1306	1191	1101	1033	980
ENERGY (ft.-lbs.)	512	417	341	283	242	213	192
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.8"	-4.8"	-9.6"	-16.5"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.4"	-4.3"	-9.0"	-15.7"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.5"	-6.7"	-12.9"
TRAJ: 100 yds. zero	-.8"	1.2"	2.2"	1.8"	0.0	-3.6"	-9.2"
TRAJ: 125 yds. zero	-.8"	1.9"	3.6"	4.0"	2.9"	0.0	-4.9"
TRAJ: 150 yds. zero	-.8"	2.7"	5.2"	6.5"	6.2"	4.1"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1550	1399	1268	1161	1078	1015	966
ENERGY (ft.-lbs.)	480	391	321	269	232	206	186
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-2.0"	-5.2"	-10.4"	-17.5"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.6"	-9.6"	-16.6"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.6"	-7.1"	-13.6"
TRAJ: 100 yds. zero	-.8"	1.3"	2.3"	2.0"	0.0	-3.8"	-9.7"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.2"	3.0"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	2.9"	5.5"	6.8"	6.4"	4.2"	0.0
VELOCITY (fps)	1500	1355	1231	1132	1056	998	952
ENERGY (ft.-lbs.)	450	367	303	256	223	199	181
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.7"	-11.1"	-18.7"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.9"	-10.2"	-17.5"
TRAJ: 75 yds. zero	-.8"	0.7"	1.1"	0.0	-2.8"	-7.5"	-14.3"
TRAJ: 100 yds. zero	-.8"	1.4"	2.5"	2.1"	0.0	-4.0"	-10.1"
TRAJ: 125 yds. zero	-.8"	2.2"	4.1"	4.5"	3.2"	0.0	-5.3"
TRAJ: 150 yds. zero	-.8"	3.1"	5.8"	7.1"	6.7"	4.4"	0.0
VELOCITY (fps)	1450	1312	1195	1104	1036	982	938
ENERGY (ft.-lbs.)	420	344	286	244	214	193	176
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.4"	-6.2"	-12.0"	-19.9"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.8"	-5.3"	-10.8"	-18.5"
TRAJ: 75 yds. zero	-.8"	0.8"	1.2"	0.0	-2.9"	-7.9"	-15.0"
TRAJ: 100 yds. zero	-.8"	1.6"	2.6"	2.2"	0.0	-4.2"	-10.6"
TRAJ: 125 yds. zero	-.8"	2.4"	4.3"	4.7"	3.4"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.3"	6.2"	7.5"	7.1"	4.6"	0.0
VELOCITY (fps)	1400	1269	1161	1078	1016	966	924
ENERGY (ft.-lbs.)	392	322	269	232	206	186	171
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.7"	-6.7"	-12.8"	-21.1"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.6"	-11.4"	-19.5"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.1"	-8.3"	-15.7"
TRAJ: 100 yds. zero	-.8"	1.7"	2.8"	2.3"	0.0	-4.4"	-11.1"
TRAJ: 125 yds. zero	-.8"	2.6"	4.6"	5.0"	3.5"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	3.5"	6.5"	7.9"	7.4"	4.8"	0.0
VELOCITY (fps)	1350	1227	1128	1054	997	950	910
ENERGY (ft.-lbs.)	364	301	254	222	198	180	166
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-3.0"	-7.3"	-13.7"	-22.5"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.0"	-6.0"	-12.1"	-20.5"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.3"	-8.7"	-16.5"
TRAJ: 100 yds. zero	-.8"	1.8"	3.0"	2.5"	0.0	-4.6"	-11.6"
TRAJ: 125 yds. zero	-.8"	2.7"	4.8"	5.2"	3.7"	0.0	-6.0"
TRAJ: 150 yds. zero	-.8"	3.7"	6.8"	8.2"	7.7"	5.0"	0.0
VELOCITY (fps)	1300	1186	1097	1030	978	934	897
ENERGY (ft.-lbs.)	338	281	241	212	191	174	161
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.3"	-7.9"	-14.7"	-23.9"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.8"	-21.6"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.5"	-9.2"	-17.3"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.8"	-12.1"
TRAJ: 125 yds. zero	-.8"	2.9"	5.1"	5.5"	3.9"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.0"	7.2"	8.7"	8.1"	5.2"	0.0
VELOCITY (fps)	1250	1146	1067	1007	959	918	882
ENERGY (ft.-lbs.)	312	263	228	203	184	168	156
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.6"	-8.5"	-15.7"	-25.4"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.3"	-6.8"	-13.5"	-22.8"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.7"	-9.7"	-18.2"
TRAJ: 100 yds. zero	-.8"	2.1"	3.4"	2.8"	0.0	-5.1"	-12.7"
TRAJ: 125 yds. zero	-.8"	3.1"	5.4"	5.8"	4.1"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.2"	7.6"	9.1"	8.4"	5.5"	0.0
VELOCITY (fps)	1200	1108	1038	984	940	901	867
ENERGY (ft.-lbs.)	288	245	215	194	176	162	150
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-9.1"	-16.8"	-27.0"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.2"	-14.3"	-24.1"
TRAJ: 75 yds. zero	-.8"	1.3"	1.7"	0.0	-3.9"	-10.2"	-19.1"
TRAJ: 100 yds. zero	-.8"	2.3"	3.6"	2.9"	0.0	-5.3"	-13.3"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.1"	4.3"	0.0	-6.9"
TRAJ: 150 yds. zero	-.8"	4.5"	8.0"	9.6"	8.9"	5.7"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1150	1070	1009	961	920	884	851
ENERGY (ft.-lbs.)	264	229	204	184	169	156	145
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.9"	-18.0"	-28.8"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.7"	-7.7"	-15.2"	-25.5"
TRAJ: 75 yds. zero	-.8"	1.4"	1.8"	0.0	-4.1"	-10.8"	-20.2"
TRAJ: 100 yds. zero	-.8"	2.5"	3.8"	3.1"	0.0	-5.6"	-14.0"
TRAJ: 125 yds. zero	-.8"	3.6"	6.1"	6.5"	4.5"	0.0	-7.2"
TRAJ: 150 yds. zero	-.8"	4.8"	8.5"	10.1"	9.3"	6.0"	0.0
VELOCITY (fps)	1100	1032	979	936	898	864	833
ENERGY (ft.-lbs.)	242	213	192	175	161	149	139
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.7"	-10.7"	-19.3"	-30.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.9"	-8.2"	-16.2"	-27.1"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.4"	-11.4"	-21.4"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.3"	0.0	-6.0"	-14.8"
TRAJ: 125 yds. zero	-.8"	3.9"	6.5"	6.9"	4.8"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	5.1"	9.0"	10.7"	9.9"	6.4"	0.0
VELOCITY (fps)	1050	994	948	908	874	842	813
ENERGY (ft.-lbs.)	220	197	179	165	152	142	132
TRAJ: 25 yds. zero	-.8"	0.0	-1.4"	-5.2"	-11.6"	-20.9"	-33.2"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.8"	-17.4"	-29.0"
TRAJ: 75 yds. zero	-.8"	1.7"	2.1"	0.0	-4.7"	-12.2"	-22.8"
TRAJ: 100 yds. zero	-.8"	2.9"	4.4"	3.5"	0.0	-6.3"	-15.7"
TRAJ: 125 yds. zero	-.8"	4.2"	7.0"	7.3"	5.1"	0.0	-8.1"
TRAJ: 150 yds. zero	-.8"	5.5"	9.7"	11.4"	10.5"	6.8"	0.0
VELOCITY (fps)	1000	953	913	878	846	816	789
ENERGY (ft.-lbs.)	200	181	167	154	143	133	124
TRAJ: 25 yds. zero	-.8"	0.0	-1.6"	-5.8"	-12.8"	-22.8"	-36.1"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.4"	-9.6"	-18.8"	-31.3"
TRAJ: 75 yds. zero	-.8"	1.9"	2.3"	0.0	-5.1"	-13.2"	-24.5"
TRAJ: 100 yds. zero	-.8"	3.2"	4.8"	3.8"	0.0	-6.8"	-16.9"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.9"	5.5"	0.0	-8.7"
TRAJ: 150 yds. zero	-.8"	6.0"	10.4"	12.3"	11.3"	7.3"	0.0
VELOCITY (fps)	950	910	875	844	814	787	761
ENERGY (ft.-lbs.)	180	166	153	142	132	124	116
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.5"	-14.2"	-25.1"	-39.6"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.7"	-10.5"	-20.6"	-34.1"
TRAJ: 75 yds. zero	-.8"	2.2"	2.5"	0.0	-5.5"	-14.3"	-26.6"
TRAJ: 100 yds. zero	-.8"	3.5"	5.3"	4.2"	0.0	-7.4"	-18.3"
TRAJ: 125 yds. zero	-.8"	5.0"	8.2"	8.6"	5.9"	0.0	-9.4"
TRAJ: 150 yds. zero	-.8"	6.6"	11.4"	13.3"	12.2"	7.9"	0.0
VELOCITY (fps)	900	866	835	806	779	754	730
ENERGY (ft.-lbs.)	162	150	139	130	121	114	106
TRAJ: 25 yds. zero	-.8"	0.0	-2.1"	-7.3"	-15.8"	-28.0"	-43.9"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.2"	-11.7"	-22.7"	-37.6"
TRAJ: 75 yds. zero	-.8"	2.4"	2.8"	0.0	-6.1"	-15.8"	-29.3"
TRAJ: 100 yds. zero	-.8"	4.0"	5.8"	4.6"	0.0	-8.2"	-20.1"
TRAJ: 125 yds. zero	-.8"	5.6"	9.1"	9.5"	6.5"	0.0	-10.3"
TRAJ: 150 yds. zero	-.8"	7.3"	12.5"	14.6"	13.4"	8.6"	0.0
VELOCITY (fps)	850	820	793	766	742	718	696
ENERGY (ft.-lbs.)	144	134	125	117	110	103	97
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.3"	-17.9"	-31.4"	-49.2"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.7"	-13.0"	-25.3"	-41.9"
TRAJ: 75 yds. zero	-.8"	2.8"	3.1"	0.0	-6.8"	-17.6"	-32.5"
TRAJ: 100 yds. zero	-.8"	4.5"	6.5"	5.1"	0.0	-9.1"	-22.3"
TRAJ: 125 yds. zero	-.8"	6.3"	10.1"	10.5"	7.2"	0.0	-11.4"
TRAJ: 150 yds. zero	-.8"	8.2"	14.0"	16.3"	14.9"	9.5"	0.0
VELOCITY (fps)	800	774	748	725	702	680	659
ENERGY (ft.-lbs.)	128	120	112	105	98	92	87
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.5"	-20.4"	-35.6"	-55.6"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.3"	-14.7"	-28.5"	-47.1"
TRAJ: 75 yds. zero	-.8"	3.2"	3.5"	0.0	-7.7"	-19.7"	-36.5"
TRAJ: 100 yds. zero	-.8"	5.1"	7.4"	5.7"	0.0	-10.1"	-25.0"
TRAJ: 125 yds. zero	-.8"	7.1"	11.4"	11.8"	8.1"	0.0	-12.8"
TRAJ: 150 yds. zero	-.8"	9.3"	15.7"	18.2"	16.7"	10.7"	0.0

9MM CALIBER (.355" Dia.) 100 GRAIN FULL METAL JACKET
SECTIONAL DENSITY: .113 BALLISTIC COEFFICIENT: .115

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1600	1465	1343	1236	1148	1078	1024
ENERGY (ft.-lbs.)	568	476	400	339	293	258	233
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.5"	-9.0"	-15.3"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.1"	-8.4"	-14.7"
TRAJ: 75 yds. zero	-.8"	0.5"	0.9"	0.0	-2.3"	-6.2"	-12.0"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.4"	-8.6"
TRAJ: 125 yds. zero	-.8"	1.8"	3.4"	3.7"	2.7"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.6"	4.9"	6.0"	5.7"	3.8"	0.0
VELOCITY (fps)	1550	1419	1302	1202	1121	1057	1007
ENERGY (ft.-lbs.)	533	447	377	321	279	248	225
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.8"	-4.9"	-9.7"	-16.4"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.4"	-4.3"	-9.0"	-15.6"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.4"	-6.6"	-12.7"
TRAJ: 100 yds. zero	-.8"	1.2"	2.2"	1.8"	0.0	-3.6"	-9.0"
TRAJ: 125 yds. zero	-.8"	1.9"	3.6"	4.0"	2.8"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	2.7"	5.2"	6.4"	6.0"	4.0"	0.0
VELOCITY (fps)	1500	1374	1263	1170	1096	1037	990
ENERGY (ft.-lbs.)	500	419	354	304	266	239	218
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.1"	-5.4"	-10.5"	-17.5"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.7"	-9.6"	-16.5"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.6"	-7.0"	-13.4"
TRAJ: 100 yds. zero	-.8"	1.3"	2.3"	2.0"	0.0	-3.8"	-9.5"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.2"	3.0"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	2.9"	5.5"	6.7"	6.3"	4.2"	0.0
VELOCITY (fps)	1450	1330	1225	1139	1071	1018	974
ENERGY (ft.-lbs.)	467	392	333	288	255	230	211
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.3"	-5.9"	-11.3"	-18.8"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-5.0"	-10.2"	-17.5"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.8"	-7.4"	-14.1"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0	-4.0"	-10.0"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.5"	3.2"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.1"	5.8"	7.1"	6.6"	4.4"	0.0
VELOCITY (fps)	1400	1286	1189	1110	1049	1000	959
ENERGY (ft.-lbs.)	435	367	314	274	244	222	204
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.6"	-6.4"	-12.1"	-20.0"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.3"	-10.8"	-18.5"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-3.0"	-7.9"	-14.9"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-4.2"	-10.5"
TRAJ: 125 yds. zero	-.8"	2.4"	4.3"	4.7"	3.3"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.3"	6.2"	7.4"	7.0"	4.6"	0.0
VELOCITY (fps)	1350	1243	1153	1082	1027	981	943
ENERGY (ft.-lbs.)	405	343	295	260	234	214	197
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.9"	-13.0"	-21.4"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.7"	-11.5"	-19.5"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.1"	-8.3"	-15.7"
TRAJ: 100 yds. zero	-.8"	1.7"	2.9"	2.4"	0.0	-4.4"	-11.0"
TRAJ: 125 yds. zero	-.8"	2.6"	4.6"	5.0"	3.5"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.8"	7.3"	4.8"	0.0
VELOCITY (fps)	1300	1200	1119	1056	1005	964	928
ENERGY (ft.-lbs.)	375	320	278	248	224	206	191
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.5"	-14.0"	-22.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.1"	-12.2"	-20.7"
TRAJ: 75 yds. zero	-.8"	1.0"	1.4"	0.0	-3.3"	-8.8"	-16.5"
TRAJ: 100 yds. zero	-.8"	1.9"	3.1"	2.5"	0.0	-4.6"	-11.5"
TRAJ: 125 yds. zero	-.8"	2.8"	4.9"	5.3"	3.7"	0.0	-6.0"
TRAJ: 150 yds. zero	-.8"	3.8"	6.9"	8.3"	7.7"	5.0"	0.0
VELOCITY (fps)	1250	1159	1087	1030	985	946	912
ENERGY (ft.-lbs.)	347	298	262	236	215	199	185
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.5"	-8.1"	-15.0"	-24.3"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.5"	-13.0"	-21.9"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.5"	-9.3"	-17.4"
TRAJ: 100 yds. zero	-.8"	2.0"	3.3"	2.6"	0.0	-4.9"	-12.1"
TRAJ: 125 yds. zero	-.8"	3.0"	5.2"	5.6"	3.9"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.1"	7.3"	8.7"	8.1"	5.2"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1200	1119	1056	1005	964	928	896
ENERGY (ft.-lbs.)	320	278	247	224	206	191	178
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.8"	-8.8"	-16.1"	-25.9"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-7.0"	-13.8"	-23.1"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.7"	-9.8"	-18.3"
TRAJ: 100 yds. zero	-.8"	2.2"	3.5"	2.8"	0.0	-5.1"	-12.7"
TRAJ: 125 yds. zero	-.8"	3.2"	5.5"	5.9"	4.1"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.3"	7.7"	9.2"	8.5"	5.5"	0.0
VELOCITY (fps)	1150	1080	1025	980	942	908	878
ENERGY (ft.-lbs.)	294	259	233	213	197	183	171
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.2"	-9.6"	-17.3"	-27.7"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.6"	-7.4"	-14.7"	-24.6"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-4.0"	-10.4"	-19.4"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	3.0"	0.0	-5.4"	-13.4"
TRAJ: 125 yds. zero	-.8"	3.5"	5.9"	6.2"	4.3"	0.0	-6.9"
TRAJ: 150 yds. zero	-.8"	4.6"	8.2"	9.7"	8.9"	5.8"	0.0
VELOCITY (fps)	1100	1041	993	953	918	887	859
ENERGY (ft.-lbs.)	269	240	219	202	187	175	164
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.6"	-10.4"	-18.7"	-29.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-8.0"	-15.7"	-26.2"
TRAJ: 75 yds. zero	-.8"	1.5"	1.9"	0.0	-4.2"	-11.0"	-20.6"
TRAJ: 100 yds. zero	-.8"	2.6"	4.0"	3.2"	0.0	-5.7"	-14.2"
TRAJ: 125 yds. zero	-.8"	3.7"	6.3"	6.6"	4.6"	0.0	-7.3"
TRAJ: 150 yds. zero	-.8"	5.0"	8.7"	10.3"	9.5"	6.1"	0.0
VELOCITY (fps)	1050	1001	960	924	892	864	837
ENERGY (ft.-lbs.)	245	222	204	190	177	166	155
TRAJ: 25 yds. zero	-.8"	0.0	-1.4"	-5.1"	-11.3"	-20.3"	-32.2"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.0"	-8.6"	-16.9"	-28.1"
TRAJ: 75 yds. zero	-.8"	1.7"	2.0"	0.0	-4.6"	-11.8"	-22.0"
TRAJ: 100 yds. zero	-.8"	2.8"	4.3"	3.4"	0.0	-6.1"	-15.2"
TRAJ: 125 yds. zero	-.8"	4.1"	6.8"	7.1"	4.9"	0.0	-7.8"
TRAJ: 150 yds. zero	-.8"	5.4"	9.4"	11.0"	10.1"	6.5"	0.0
VELOCITY (fps)	1000	959	924	892	863	837	812
ENERGY (ft.-lbs.)	222	204	189	177	165	155	146
TRAJ: 25 yds. zero	-.8"	0.0	-1.6"	-5.7"	-12.5"	-22.2"	-35.0"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.3"	-9.4"	-18.3"	-30.4"
TRAJ: 75 yds. zero	-.8"	1.9"	2.2"	0.0	-4.9"	-12.8"	-23.7"
TRAJ: 100 yds. zero	-.8"	3.1"	4.7"	3.7"	0.0	-6.6"	-16.3"
TRAJ: 125 yds. zero	-.8"	4.4"	7.3"	7.7"	5.3"	0.0	-8.4"
TRAJ: 150 yds. zero	-.8"	5.8"	10.1"	11.9"	10.9"	7.0"	0.0
VELOCITY (fps)	950	916	885	857	830	806	783
ENERGY (ft.-lbs.)	200	186	174	163	153	144	136
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.4"	-13.9"	-24.5"	-38.5"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.7"	-10.3"	-20.1"	-33.2"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.4"	-13.9"	-25.8"
TRAJ: 100 yds. zero	-.8"	3.5"	5.1"	4.0"	0.0	-7.2"	-17.7"
TRAJ: 125 yds. zero	-.8"	4.9"	8.0"	8.4"	5.8"	0.0	-9.1"
TRAJ: 150 yds. zero	-.8"	6.4"	11.1"	12.9"	11.8"	7.6"	0.0
VELOCITY (fps)	900	871	843	818	794	772	750
ENERGY (ft.-lbs.)	180	168	158	149	140	132	125
TRAJ: 25 yds. zero	-.8"	0.0	-2.1"	-7.2"	-15.5"	-27.3"	-42.8"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.1"	-11.4"	-22.2"	-36.6"
TRAJ: 75 yds. zero	-.8"	2.4"	2.7"	0.0	-6.0"	-15.4"	-28.4"
TRAJ: 100 yds. zero	-.8"	3.9"	5.7"	4.5"	0.0	-7.9"	-19.4"
TRAJ: 125 yds. zero	-.8"	5.5"	8.9"	9.2"	6.3"	0.0	-10.0"
TRAJ: 150 yds. zero	-.8"	7.1"	12.2"	14.2"	13.0"	8.3"	0.0
VELOCITY (fps)	850	824	800	777	755	734	714
ENERGY (ft.-lbs.)	160	151	142	134	127	120	113
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.2"	-17.6"	-30.8"	-48.0"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.6"	-12.8"	-24.8"	-40.8"
TRAJ: 75 yds. zero	-.8"	2.7"	3.1"	0.0	-6.7"	-17.1"	-31.6"
TRAJ: 100 yds. zero	-.8"	4.4"	6.4"	5.0"	0.0	-8.8"	-21.6"
TRAJ: 125 yds. zero	-.8"	6.2"	9.9"	10.3"	7.0"	0.0	-11.1"
TRAJ: 150 yds. zero	-.8"	8.0"	13.6"	15.8"	14.4"	9.2"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	800	777	755	734	714	695	676
ENERGY (ft.-lbs.)	142	134	127	120	113	107	102
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.4"	-20.0"	-34.9"	-54.3"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.2"	-14.4"	-27.9"	-45.9"
TRAJ: 75 yds. zero	-.8"	3.1"	3.5"	0.0	-7.5"	-19.2"	-35.5"
TRAJ: 100 yds. zero	-.8"	5.0"	7.2"	5.6"	0.0	-9.9"	-24.2"
TRAJ: 125 yds. zero	-.8"	7.0"	11.2"	11.5"	7.9"	0.0	-12.4"
TRAJ: 150 yds. zero	-.8"	9.0"	15.3"	17.7"	16.2"	10.3"	0.0
VELOCITY (fps)	750	729	709	690	672	654	636
ENERGY (ft.-lbs.)	125	118	112	106	100	95	90
TRAJ: 25 yds. zero	-.8"	0.0	-3.3"	-10.9"	-23.0"	-40.0"	-62.1"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-6.0"	-16.5"	-31.8"	-52.2"
TRAJ: 75 yds. zero	-.8"	3.6"	4.0"	0.0	-8.5"	-21.9"	-40.3"
TRAJ: 100 yds. zero	-.8"	5.8"	8.2"	6.4"	0.0	-11.2"	-27.5"
TRAJ: 125 yds. zero	-.8"	8.0"	12.7"	13.1"	9.0"	0.0	-14.0"
TRAJ: 150 yds. zero	-.8"	10.3"	17.4"	20.2"	18.3"	11.7"	0.0

9MM CALIBER (.355" Dia.) 115 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .130 BALLISTIC COEFFICIENT: .129

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1500	1387	1286	1198	1126	1067	1020
ENERGY (ft.-lbs.)	574	491	422	367	323	291	265
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-2.0"	-5.1"	-10.0"	-16.7"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.5"	-9.2"	-15.8"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.5"	-6.7"	-12.8"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.9"	0.0	-3.6"	-9.0"
TRAJ: 125 yds. zero	-.8"	2.0"	3.7"	4.0"	2.9"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.8"	5.3"	6.4"	6.0"	4.0"	0.0
VELOCITY (fps)	1450	1342	1246	1165	1099	1046	1002
ENERGY (ft.-lbs.)	537	460	397	347	308	279	256
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.6"	-10.8"	-18.0"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.8"	-9.8"	-16.7"
TRAJ: 75 yds. zero	-.8"	0.7"	1.1"	0.0	-2.7"	-7.1"	-13.5"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	2.0"	0.0	-3.8"	-9.5"
TRAJ: 125 yds. zero	-.8"	2.2"	3.9"	4.3"	3.0"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.0"	5.6"	6.8"	6.4"	4.2"	0.0
VELOCITY (fps)	1400	1297	1208	1134	1073	1025	985
ENERGY (ft.-lbs.)	500	430	373	328	294	268	247
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.1"	-11.7"	-19.2"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-5.2"	-10.4"	-17.8"
TRAJ: 75 yds. zero	-.8"	0.8"	1.2"	0.0	-2.8"	-7.6"	-14.3"
TRAJ: 100 yds. zero	-.8"	1.5"	2.6"	2.1"	0.0	-4.0"	-10.0"
TRAJ: 125 yds. zero	-.8"	2.3"	4.2"	4.5"	3.2"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.2"	5.9"	7.2"	6.7"	4.4"	0.0
VELOCITY (fps)	1350	1253	1171	1103	1049	1005	967
ENERGY (ft.-lbs.)	465	401	350	311	281	258	239
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.7"	-6.7"	-12.6"	-20.6"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.5"	-11.1"	-18.9"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.0"	-8.0"	-15.1"
TRAJ: 100 yds. zero	-.8"	1.7"	2.8"	2.3"	0.0	-4.2"	-10.6"
TRAJ: 125 yds. zero	-.8"	2.5"	4.5"	4.8"	3.4"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.4"	6.3"	7.6"	7.0"	4.6"	0.0
VELOCITY (fps)	1300	1210	1135	1075	1026	986	951
ENERGY (ft.-lbs.)	431	374	329	295	269	248	231
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.0"	-7.3"	-13.6"	-22.0"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.0"	-5.9"	-11.9"	-20.0"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.2"	-8.5"	-15.9"
TRAJ: 100 yds. zero	-.8"	1.8"	3.0"	2.4"	0.0	-4.5"	-11.1"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.1"	3.6"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	3.7"	6.7"	8.0"	7.4"	4.8"	0.0
VELOCITY (fps)	1250	1168	1101	1047	1003	966	934
ENERGY (ft.-lbs.)	399	348	310	280	257	238	223
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-7.9"	-14.6"	-23.6"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.3"	-12.6"	-21.2"
TRAJ: 75 yds. zero	-.8"	1.1"	1.5"	0.0	-3.4"	-9.0"	-16.8"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.7"	-11.7"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.4"	3.8"	0.0	-6.1"
TRAJ: 150 yds. zero	-.8"	3.9"	7.1"	8.4"	7.8"	5.0"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1200	1127	1068	1021	981	947	916
ENERGY (ft.-lbs.)	368	324	291	266	246	229	214
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.7"	-8.6"	-15.7"	-25.2"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.8"	-13.4"	-22.5"
TRAJ: 75 yds. zero	-.8"	1.2"	1.6"	0.0	-3.6"	-9.5"	-17.8"
TRAJ: 100 yds. zero	-.8"	2.1"	3.4"	2.7"	0.0	-5.0"	-12.3"
TRAJ: 125 yds. zero	-.8"	3.1"	5.4"	5.7"	4.0"	0.0	-6.4"
TRAJ: 150 yds. zero	-.8"	4.2"	7.5"	8.9"	8.2"	5.3"	0.0
VELOCITY (fps)	1150	1087	1036	994	958	926	897
ENERGY (ft.-lbs.)	338	301	274	252	234	219	206
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-4.1"	-9.3"	-16.9"	-27.0"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.3"	-14.3"	-23.9"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.1"	-18.8"
TRAJ: 100 yds. zero	-.8"	2.3"	3.6"	2.9"	0.0	-5.3"	-13.0"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.1"	4.2"	0.0	-6.7"
TRAJ: 150 yds. zero	-.8"	4.5"	8.0"	9.4"	8.7"	5.6"	0.0
VELOCITY (fps)	1100	1047	1003	966	933	904	877
ENERGY (ft.-lbs.)	309	280	257	238	222	209	196
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.5"	-10.2"	-18.3"	-29.1"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.8"	-15.4"	-25.5"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.2"	-10.8"	-20.1"
TRAJ: 100 yds. zero	-.8"	2.5"	3.9"	3.1"	0.0	-5.6"	-13.8"
TRAJ: 125 yds. zero	-.8"	3.7"	6.1"	6.5"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	4.8"	8.5"	10.0"	9.2"	5.9"	0.0
VELOCITY (fps)	1050	1006	968	935	906	879	854
ENERGY (ft.-lbs.)	281	258	239	223	209	197	186
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-5.0"	-11.1"	-19.9"	-31.5"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.0"	-8.5"	-16.5"	-27.4"
TRAJ: 75 yds. zero	-.8"	1.7"	2.0"	0.0	-4.5"	-11.6"	-21.5"
TRAJ: 100 yds. zero	-.8"	2.8"	4.2"	3.4"	0.0	-6.0"	-14.8"
TRAJ: 125 yds. zero	-.8"	4.0"	6.6"	6.9"	4.8"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	5.2"	9.1"	10.7"	9.8"	6.3"	0.0
VELOCITY (fps)	1000	963	931	902	875	851	828
ENERGY (ft.-lbs.)	255	237	221	208	196	185	175
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.6"	-12.3"	-21.8"	-34.3"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.3"	-9.2"	-18.0"	-29.7"
TRAJ: 75 yds. zero	-.8"	1.9"	2.2"	0.0	-4.8"	-12.5"	-23.2"
TRAJ: 100 yds. zero	-.8"	3.1"	4.6"	3.6"	0.0	-6.5"	-15.9"
TRAJ: 125 yds. zero	-.8"	4.4"	7.2"	7.5"	5.2"	0.0	-8.2"
TRAJ: 150 yds. zero	-.8"	5.7"	9.9"	11.6"	10.6"	6.8"	0.0

9MM CALIBER (.355" Dia.) 115 GRAIN FULL METAL JACKET ROUND NOSE
SECTIONAL DENSITY: .130 BALLISTIC COEFFICIENT: .140

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1500	1396	1301	1218	1147	1089	1041
ENERGY (ft.-lbs.)	574	497	432	379	336	303	277
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.9"	-5.0"	-9.7"	-16.2"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.4"	-4.3"	-8.9"	-15.3"
TRAJ: 75 yds. zero	-.8"	0.6"	1.0"	0.0	-2.4"	-6.5"	-12.4"
TRAJ: 100 yds. zero	-.8"	1.2"	2.2"	1.8"	0.0	-3.5"	-8.8"
TRAJ: 125 yds. zero	-.8"	1.9"	3.6"	3.9"	2.8"	0.0	-4.6"
TRAJ: 150 yds. zero	-.8"	2.7"	5.1"	6.2"	5.8"	3.8"	0.0
VELOCITY (fps)	1450	1350	1261	1183	1118	1065	1021
ENERGY (ft.-lbs.)	537	465	406	357	319	290	266
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.5"	-10.5"	-17.4"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.5"	-16.3"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.6"	-6.9"	-13.1"
TRAJ: 100 yds. zero	-.8"	1.4"	2.3"	1.9"	0.0	-3.7"	-9.2"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.2"	2.9"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	2.9"	5.4"	6.6"	6.2"	4.0"	0.0
VELOCITY (fps)	1400	1305	1221	1150	1091	1043	1003
ENERGY (ft.-lbs.)	500	435	381	337	304	278	257
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.4"	-6.0"	-11.4"	-18.7"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-5.0"	-10.2"	-17.3"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.8"	-7.4"	-13.9"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0	-3.9"	-9.8"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.4"	3.1"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	3.1"	5.8"	7.0"	6.5"	4.2"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1350	1261	1183	1118	1065	1021	984
ENERGY (ft.-lbs.)	465	406	357	319	290	266	247
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.7"	-6.5"	-12.3"	-20.1"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.4"	-10.9"	-18.4"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-3.0"	-7.8"	-14.7"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-4.1"	-10.3"
TRAJ: 125 yds. zero	-.8"	2.5"	4.3"	4.7"	3.3"	0.0	-5.4"
TRAJ: 150 yds. zero	-.8"	3.4"	6.1"	7.4"	6.9"	4.5"	0.0
VELOCITY (fps)	1300	1217	1146	1088	1040	1001	966
ENERGY (ft.-lbs.)	431	378	335	302	276	256	238
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.0"	-7.1"	-13.3"	-21.5"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.0"	-5.8"	-11.6"	-19.5"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.2"	-8.3"	-15.6"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.4"	0.0	-4.4"	-10.9"
TRAJ: 125 yds. zero	-.8"	2.7"	4.6"	5.0"	3.5"	0.0	-5.6"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.8"	7.2"	4.7"	0.0
VELOCITY (fps)	1250	1174	1111	1059	1016	980	948
ENERGY (ft.-lbs.)	399	352	315	286	264	245	230
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.3"	-7.8"	-14.3"	-23.1"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.2"	-12.4"	-20.8"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.4"	-8.8"	-16.5"
TRAJ: 100 yds. zero	-.8"	1.9"	3.1"	2.5"	0.0	-4.6"	-11.4"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.3"	3.7"	0.0	-5.9"
TRAJ: 150 yds. zero	-.8"	3.8"	6.9"	8.2"	7.6"	4.9"	0.0
VELOCITY (fps)	1200	1132	1077	1031	993	959	930
ENERGY (ft.-lbs.)	368	327	296	271	252	235	221
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.7"	-8.5"	-15.4"	-24.7"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.3"	-6.7"	-13.2"	-22.1"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.6"	-9.3"	-17.4"
TRAJ: 100 yds. zero	-.8"	2.1"	3.3"	2.7"	0.0	-4.9"	-12.1"
TRAJ: 125 yds. zero	-.8"	3.1"	5.3"	5.6"	3.9"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.1"	7.4"	8.7"	8.0"	5.2"	0.0
VELOCITY (fps)	1150	1091	1043	1003	968	938	911
ENERGY (ft.-lbs.)	338	304	278	257	239	225	212
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-4.0"	-9.2"	-16.7"	-26.6"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.2"	-14.1"	-23.5"
TRAJ: 75 yds. zero	-.8"	1.3"	1.7"	0.0	-3.8"	-9.9"	-18.5"
TRAJ: 100 yds. zero	-.8"	2.3"	3.6"	2.9"	0.0	-5.2"	-12.8"
TRAJ: 125 yds. zero	-.8"	3.3"	5.6"	6.0"	4.1"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.4"	7.8"	9.2"	8.5"	5.5"	0.0
VELOCITY (fps)	1100	1050	1009	974	943	915	889
ENERGY (ft.-lbs.)	309	282	260	242	227	214	202
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.5"	-10.0"	-18.1"	-28.6"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.7"	-15.1"	-25.1"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.1"	-10.6"	-19.7"
TRAJ: 100 yds. zero	-.8"	2.5"	3.9"	3.1"	0.0	-5.5"	-13.6"
TRAJ: 125 yds. zero	-.8"	3.6"	6.1"	6.4"	4.4"	0.0	-7.0"
TRAJ: 150 yds. zero	-.8"	4.8"	8.4"	9.9"	9.0"	5.8"	0.0
VELOCITY (fps)	1050	1009	974	943	915	889	866
ENERGY (ft.-lbs.)	281	260	242	227	214	202	191
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-5.0"	-11.0"	-19.7"	-31.0"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.0"	-8.3"	-16.3"	-27.0"
TRAJ: 75 yds. zero	-.8"	1.7"	2.0"	0.0	-4.4"	-11.4"	-21.1"
TRAJ: 100 yds. zero	-.8"	2.8"	4.2"	3.3"	0.0	-5.9"	-14.5"
TRAJ: 125 yds. zero	-.8"	3.9"	6.5"	6.8"	4.7"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.2"	9.0"	10.6"	9.7"	6.2"	0.0
VELOCITY (fps)	1000	966	936	909	883	860	838
ENERGY (ft.-lbs.)	255	238	224	211	199	189	179
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.5"	-12.2"	-21.6"	-33.9"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-9.1"	-17.7"	-29.3"
TRAJ: 75 yds. zero	-.8"	1.8"	2.2"	0.0	-4.8"	-12.3"	-22.8"
TRAJ: 100 yds. zero	-.8"	3.0"	4.6"	3.6"	0.0	-6.4"	-15.7"
TRAJ: 125 yds. zero	-.8"	4.3"	7.1"	7.4"	5.1"	0.0	-8.0"
TRAJ: 150 yds. zero	-.8"	5.6"	9.8"	11.4"	10.4"	6.7"	0.0

9MM CALIBER (.355" Dia.) 124 GRAIN FULL METAL JACKET FLAT POINT
SECTIONAL DENSITY: .141 BALLISTIC COEFFICIENT: .174

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1400	1323	1253	1190	1136	1090	1050
ENERGY (ft.-lbs.)	540	482	432	390	355	327	304
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.3"	-5.6"	-10.7"	-17.5"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.6"	-16.2"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.6"	-6.9"	-13.0"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	2.0"	0.0	-3.6"	-9.1"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.1"	2.9"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.9"	5.4"	6.5"	6.1"	3.9"	0.0
VELOCITY (fps)	1350	1277	1212	1155	1106	1064	1028
ENERGY (ft.-lbs.)	502	449	404	367	336	312	291
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.2"	-11.6"	-18.9"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.7"	-5.1"	-10.3"	-17.3"
TRAJ: 75 yds. zero	-.8"	0.8"	1.2"	0.0	-2.8"	-7.4"	-13.8"
TRAJ: 100 yds. zero	-.8"	1.5"	2.6"	2.1"	0.0	-3.9"	-9.6"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.4"	3.1"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.2"	5.8"	6.9"	6.4"	4.2"	0.0
VELOCITY (fps)	1300	1232	1172	1121	1077	1039	1007
ENERGY (ft.-lbs.)	465	418	378	346	319	297	279
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.8"	-12.6"	-20.4"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.5"	-11.0"	-18.5"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.0"	-7.8"	-14.7"
TRAJ: 100 yds. zero	-.8"	1.7"	2.8"	2.2"	0.0	-4.1"	-10.2"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.3"	0.0	-5.3"
TRAJ: 150 yds. zero	-.8"	3.4"	6.2"	7.3"	6.8"	4.4"	0.0
VELOCITY (fps)	1250	1188	1134	1088	1049	1016	986
ENERGY (ft.-lbs.)	430	388	354	326	303	284	268
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.2"	-7.4"	-13.6"	-22.0"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-5.9"	-11.8"	-19.7"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.2"	-8.4"	-15.6"
TRAJ: 100 yds. zero	-.8"	1.9"	3.0"	2.4"	0.0	-4.4"	-10.8"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.0"	3.5"	0.0	-5.6"
TRAJ: 150 yds. zero	-.8"	3.7"	6.6"	7.8"	7.2"	4.7"	0.0
VELOCITY (fps)	1200	1144	1097	1057	1022	992	965
ENERGY (ft.-lbs.)	396	361	331	307	288	271	256
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.5"	-8.1"	-14.8"	-23.6"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.6"	-21.1"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.4"	-8.9"	-16.6"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.6"	-11.5"
TRAJ: 125 yds. zero	-.8"	3.0"	5.1"	5.4"	3.7"	0.0	-5.9"
TRAJ: 150 yds. zero	-.8"	3.9"	7.0"	8.3"	7.6"	4.9"	0.0
VELOCITY (fps)	1150	1102	1061	1026	995	968	943
ENERGY (ft.-lbs.)	364	334	310	290	273	258	245
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.9"	-16.0"	-25.5"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.9"	-13.6"	-22.5"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.7"	-9.5"	-17.7"
TRAJ: 100 yds. zero	-.8"	2.2"	3.5"	2.8"	0.0	-4.9"	-12.2"
TRAJ: 125 yds. zero	-.8"	3.2"	5.4"	5.7"	4.0"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.3"	7.5"	8.8"	8.1"	5.2"	0.0
VELOCITY (fps)	1100	1059	1024	994	967	942	919
ENERGY (ft.-lbs.)	333	309	289	272	257	244	233
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.7"	-17.4"	-27.6"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.5"	-14.6"	-24.2"
TRAJ: 75 yds. zero	-.8"	1.4"	1.8"	0.0	-4.0"	-10.2"	-18.9"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	3.0"	0.0	-5.3"	-13.0"
TRAJ: 125 yds. zero	-.8"	3.5"	5.8"	6.1"	4.2"	0.0	-6.7"
TRAJ: 150 yds. zero	-.8"	4.6"	8.1"	9.5"	8.7"	5.5"	0.0
VELOCITY (fps)	1050	1016	987	960	936	914	893
ENERGY (ft.-lbs.)	304	284	268	254	241	230	220
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.7"	-19.1"	-30.0"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-2.9"	-8.1"	-15.8"	-26.1"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.3"	-11.0"	-20.3"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.2"	0.0	-5.7"	-13.9"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.6"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	5.0"	8.7"	10.2"	9.3"	5.9"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	972	947	924	903	883	864
ENERGY (ft.-lbs.)	275	260	247	235	224	215	206
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.9"	-21.0"	-32.9"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.2"	-8.9"	-17.2"	-28.4"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.7"	-12.0"	-22.1"
TRAJ: 100 yds. zero	-.8"	3.0"	4.4"	3.5"	0.0	-6.1"	-15.1"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.2"	4.9"	0.0	-7.7"
TRAJ: 150 yds. zero	-.8"	5.5"	9.5"	11.0"	10.1"	6.4"	0.0
VELOCITY (fps)	950	927	905	885	866	848	831
ENERGY (ft.-lbs.)	248	236	226	216	207	198	190
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.2"	-23.3"	-36.3"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.8"	-19.0"	-31.1"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.1"	-13.1"	-20.5"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.8"	0.0	-6.7"	-16.5"
TRAJ: 125 yds. zero	-.8"	4.7"	7.6"	7.9"	5.4"	0.0	-8.4"
TRAJ: 150 yds. zero	-.8"	6.1"	10.4"	12.1"	11.0"	7.0"	0.0
VELOCITY (fps)	900	880	862	844	827	811	795
ENERGY (ft.-lbs.)	223	213	204	196	188	181	174
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.9"	-26.1"	-40.5"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.9"	-21.0"	-34.5"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.7"	-14.5"	-26.7"
TRAJ: 100 yds. zero	-.8"	3.7"	5.5"	4.2"	0.0	-7.4"	-18.2"
TRAJ: 125 yds. zero	-.8"	5.2"	8.4"	8.7"	5.9"	0.0	-9.3"
TRAJ: 150 yds. zero	-.8"	6.8"	11.5"	13.3"	12.1"	7.7"	0.0

9MM CALIBER (.355" Dia.) 124 GRAIN FULL METAL JACKET ROUND NOSE
SECTIONAL DENSITY: .141 BALLISTIC COEFFICIENT: .145

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1400	1308	1227	1157	1098	1050	1010
ENERGY (ft.-lbs.)	540	471	414	368	332	304	281
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.4"	-5.9"	-11.2"	-18.5"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-5.0"	-10.1"	-17.1"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.7"	-7.3"	-13.8"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0	-3.8"	-9.6"
TRAJ: 125 yds. zero	-.8"	2.2"	4.0"	4.4"	3.1"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.1"	5.7"	6.9"	6.4"	4.2"	0.0
VELOCITY (fps)	1350	1263	1188	1124	1072	1028	992
ENERGY (ft.-lbs.)	502	439	388	348	316	291	271
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.7"	-6.5"	-12.2"	-19.9"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.4"	-10.8"	-18.2"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.9"	-7.7"	-14.6"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-4.1"	-10.2"
TRAJ: 125 yds. zero	-.8"	2.4"	4.3"	4.6"	3.3"	0.0	-5.3"
TRAJ: 150 yds. zero	-.8"	3.3"	6.1"	7.3"	6.8"	4.4"	0.0
VELOCITY (fps)	1300	1219	1151	1093	1046	1007	973
ENERGY (ft.-lbs.)	465	409	364	329	301	279	261
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.0"	-7.1"	-13.2"	-21.3"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.0"	-5.7"	-11.5"	-19.4"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.1"	-8.2"	-15.4"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.3"	0.0	-4.3"	-10.7"
TRAJ: 125 yds. zero	-.8"	2.6"	4.6"	4.9"	3.5"	0.0	-5.6"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.7"	7.2"	4.6"	0.0
VELOCITY (fps)	1250	1176	1115	1064	1022	986	955
ENERGY (ft.-lbs.)	430	381	342	312	287	268	251
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.3"	-7.7"	-14.2"	-22.9"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.2"	-12.3"	-20.6"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.3"	-8.7"	-16.3"
TRAJ: 100 yds. zero	-.8"	1.9"	3.1"	2.5"	0.0	-4.6"	-11.3"
TRAJ: 125 yds. zero	-.8"	2.8"	4.9"	5.2"	3.7"	0.0	-5.9"
TRAJ: 150 yds. zero	-.8"	3.8"	6.9"	8.2"	7.6"	4.9"	0.0
VELOCITY (fps)	1200	1134	1080	1035	998	965	936
ENERGY (ft.-lbs.)	396	354	321	295	274	256	241
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.6"	-8.4"	-15.3"	-24.6"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.3"	-6.6"	-13.1"	-21.9"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.6"	-9.3"	-17.3"
TRAJ: 100 yds. zero	-.8"	2.1"	3.3"	2.7"	0.0	-4.8"	-12.0"
TRAJ: 125 yds. zero	-.8"	3.1"	5.2"	5.6"	3.9"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.1"	7.3"	8.6"	8.0"	5.1"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1150	1093	1046	1007	973	943	916
ENERGY (ft.-lbs.)	364	329	301	279	261	245	231
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-4.0"	-9.1"	-16.6"	-26.4"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.1"	-14.0"	-23.3"
TRAJ: 75 yds. zero	-.8"	1.3"	1.7"	0.0	-3.8"	-9.9"	-18.4"
TRAJ: 100 yds. zero	-.8"	2.3"	3.6"	2.8"	0.0	-5.1"	-12.7"
TRAJ: 125 yds. zero	-.8"	3.3"	5.6"	5.9"	4.1"	0.0	-6.5"
TRAJ: 150 yds. zero	-.8"	4.4"	7.8"	9.2"	8.4"	5.4"	0.0
VELOCITY (fps)	1100	1052	1012	977	947	919	894
ENERGY (ft.-lbs.)	333	305	282	263	247	233	220
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.4"	-10.0"	-17.9"	-28.5"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.7"	-15.0"	-25.0"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.1"	-10.5"	-19.6"
TRAJ: 100 yds. zero	-.8"	2.5"	3.8"	3.1"	0.0	-5.5"	-13.5"
TRAJ: 125 yds. zero	-.8"	3.6"	6.0"	6.3"	4.4"	0.0	-6.9"
TRAJ: 150 yds. zero	-.8"	4.7"	8.3"	9.8"	9.0"	5.8"	0.0
VELOCITY (fps)	1050	1010	976	946	918	893	870
ENERGY (ft.-lbs.)	304	281	262	246	232	220	209
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.9"	-11.0"	-19.6"	-30.8"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-2.9"	-8.3"	-16.2"	-26.9"
TRAJ: 75 yds. zero	-.8"	1.6"	2.0"	0.0	-4.4"	-11.3"	-21.0"
TRAJ: 100 yds. zero	-.8"	2.7"	4.2"	3.3"	0.0	-5.9"	-14.4"
TRAJ: 125 yds. zero	-.8"	3.9"	6.5"	6.8"	4.7"	0.0	-7.4"
TRAJ: 150 yds. zero	-.8"	5.1"	9.0"	10.5"	9.6"	6.2"	0.0
VELOCITY (fps)	1000	967	938	911	887	864	843
ENERGY (ft.-lbs.)	275	257	242	229	217	206	196
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.5"	-12.1"	-21.5"	-33.7"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-9.1"	-17.7"	-29.2"
TRAJ: 75 yds. zero	-.8"	1.8"	2.2"	0.0	-4.8"	-12.3"	-22.7"
TRAJ: 100 yds. zero	-.8"	3.0"	4.5"	3.6"	0.0	-6.3"	-15.6"
TRAJ: 125 yds. zero	-.8"	4.3"	7.1"	7.4"	5.1"	0.0	-8.0"
TRAJ: 150 yds. zero	-.8"	5.6"	9.7"	11.4"	10.4"	6.6"	0.0
VELOCITY (fps)	950	922	897	874	852	831	812
ENERGY (ft.-lbs.)	248	234	222	210	200	190	181
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.2"	-13.5"	-23.8"	-37.2"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.6"	-10.0"	-19.4"	-31.9"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.2"	-13.4"	-24.8"
TRAJ: 100 yds. zero	-.8"	3.4"	5.0"	3.9"	0.0	-6.9"	-16.9"
TRAJ: 125 yds. zero	-.8"	4.8"	7.8"	8.1"	5.5"	0.0	-8.7"
TRAJ: 150 yds. zero	-.8"	6.2"	10.6"	12.4"	11.3"	7.2"	0.0
VELOCITY (fps)	900	876	854	834	814	795	777
ENERGY (ft.-lbs.)	223	211	201	191	182	174	166
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.0"	-15.2"	-26.6"	-41.4"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.1"	-21.5"	-35.3"
TRAJ: 75 yds. zero	-.8"	2.3"	2.7"	0.0	-5.8"	-14.8"	-27.3"
TRAJ: 100 yds. zero	-.8"	3.8"	5.5"	4.3"	0.0	-7.6"	-18.7"
TRAJ: 125 yds. zero	-.8"	5.3"	8.6"	8.9"	6.1"	0.0	-9.5"
TRAJ: 150 yds. zero	-.8"	6.9"	11.8"	13.7"	12.4"	7.9"	0.0

9MM CALIBER (.355" Dia.) 147 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .167 BALLISTIC COEFFICIENT: .212

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1300	1244	1193	1147	1107	1073	1042
ENERGY (ft.-lbs.)	552	505	464	430	400	375	354
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.7"	-6.5"	-12.1"	-19.5"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.3"	-10.5"	-17.7"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.9"	-7.5"	-14.0"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-3.9"	-9.7"
TRAJ: 125 yds. zero	-.8"	2.4"	4.2"	4.5"	3.1"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.2"	5.9"	7.0"	6.5"	4.2"	0.0
VELOCITY (fps)	1250	1198	1152	1112	1076	1045	1018
ENERGY (ft.-lbs.)	510	469	433	403	378	357	338
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.2"	-13.1"	-21.1"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.7"	-11.4"	-18.9"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.1"	-8.0"	-15.0"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.3"	0.0	-4.2"	-10.3"
TRAJ: 125 yds. zero	-.8"	2.6"	4.5"	4.8"	3.3"	0.0	-5.3"
TRAJ: 150 yds. zero	-.8"	3.5"	6.3"	7.5"	6.9"	4.4"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1200	1154	1113	1078	1046	1019	994
ENERGY (ft.-lbs.)	470	434	404	379	357	339	322
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-7.9"	-14.3"	-22.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.2"	-12.2"	-20.3"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.3"	-8.6"	-16.0"
TRAJ: 100 yds. zero	-.8"	2.0"	3.1"	2.5"	0.0	-4.5"	-11.0"
TRAJ: 125 yds. zero	-.8"	2.9"	4.9"	5.2"	3.6"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.8"	6.8"	8.0"	7.3"	4.7"	0.0
VELOCITY (fps)	1150	1110	1075	1044	1017	992	970
ENERGY (ft.-lbs.)	432	402	377	356	337	321	307
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.8"	-8.6"	-15.6"	-24.7"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.7"	-13.2"	-21.8"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.2"	-17.1"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.8"	-11.7"
TRAJ: 125 yds. zero	-.8"	3.1"	5.3"	5.5"	3.8"	0.0	-6.0"
TRAJ: 150 yds. zero	-.8"	4.1"	7.3"	8.5"	7.8"	5.0"	0.0
VELOCITY (fps)	1100	1066	1036	1010	986	964	944
ENERGY (ft.-lbs.)	395	371	350	333	317	303	291
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.2"	-9.5"	-17.0"	-26.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.3"	-14.2"	-23.5"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.8"	-9.9"	-18.3"
TRAJ: 100 yds. zero	-.8"	2.4"	3.6"	2.9"	0.0	-5.1"	-12.6"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.0"	4.1"	0.0	-6.4"
TRAJ: 150 yds. zero	-.8"	4.5"	7.8"	9.2"	8.4"	5.3"	0.0
VELOCITY (fps)	1050	1022	997	974	953	934	916
ENERGY (ft.-lbs.)	360	341	324	310	297	285	274
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.7"	-10.5"	-18.6"	-29.2"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-7.9"	-15.4"	-25.4"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.7"	-19.8"
TRAJ: 100 yds. zero	-.8"	2.6"	4.0"	3.1"	0.0	-5.5"	-13.5"
TRAJ: 125 yds. zero	-.8"	3.7"	6.2"	6.4"	4.4"	0.0	-6.9"
TRAJ: 150 yds. zero	-.8"	4.9"	8.5"	9.9"	9.0"	5.7"	0.0
VELOCITY (fps)	1000	977	956	936	918	901	884
ENERGY (ft.-lbs.)	326	312	298	286	275	265	255
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.3"	-11.6"	-20.5"	-32.1"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.7"	-16.9"	-27.7"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.5"	-11.7"	-21.5"
TRAJ: 100 yds. zero	-.8"	2.9"	4.3"	3.4"	0.0	-6.0"	-14.6"
TRAJ: 125 yds. zero	-.8"	4.1"	6.7"	7.0"	4.8"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.4"	9.2"	10.7"	9.8"	6.2"	0.0
VELOCITY (fps)	950	931	913	896	880	864	850
ENERGY (ft.-lbs.)	295	283	272	262	253	244	236
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.0"	-13.0"	-22.9"	-35.6"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.6"	-18.6"	-30.4"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.0"	-12.8"	-23.5"
TRAJ: 100 yds. zero	-.8"	3.3"	4.8"	3.8"	0.0	-6.6"	-16.0"
TRAJ: 125 yds. zero	-.8"	4.6"	7.4"	7.7"	5.3"	0.0	-8.1"
TRAJ: 150 yds. zero	-.8"	5.9"	10.1"	11.8"	10.7"	6.8"	0.0
VELOCITY (fps)	900	884	868	853	839	825	812
ENERGY (ft.-lbs.)	264	255	246	238	230	222	215
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.8"	-14.7"	-25.6"	-39.7"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.7"	-20.7"	-33.8"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.2"	-26.0"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.3"	-17.7"
TRAJ: 125 yds. zero	-.8"	5.1"	8.3"	8.5"	5.8"	0.0	-9.0"
TRAJ: 150 yds. zero	-.8"	6.6"	11.3"	13.0"	11.8"	7.5"	0.0
VELOCITY (fps)	850	836	822	809	796	784	771
ENERGY (ft.-lbs.)	236	228	221	214	207	200	194
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.8"	-16.7"	-28.9"	-44.7"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.1"	-23.2"	-37.8"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.2"	-15.9"	-29.1"
TRAJ: 100 yds. zero	-.8"	4.2"	6.0"	4.7"	0.0	-8.1"	-19.7"
TRAJ: 125 yds. zero	-.8"	5.8"	9.3"	9.5"	6.5"	0.0	-10.0"
TRAJ: 150 yds. zero	-.8"	7.5"	12.6"	14.5"	13.1"	8.3"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	800	787	775	763	752	740	729
ENERGY (ft.-lbs.)	209	202	196	190	184	179	174
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.0"	-19.1"	-32.9"	-50.8"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.6"	-26.2"	-42.7"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.0"	-17.9"	-32.7"
TRAJ: 100 yds. zero	-.8"	4.8"	6.8"	5.3"	0.0	-9.1"	-22.2"
TRAJ: 125 yds. zero	-.8"	6.6"	10.5"	10.7"	7.3"	0.0	-11.3"
TRAJ: 150 yds. zero	-.8"	8.5"	14.2"	16.4"	14.8"	9.4"	0.0

9MM CALIBER (.355" Dia.) 147 GRAIN FULL METAL JACKET ROUND NOSE
SECTIONAL DENSITY: .167 BALLISTIC COEFFICIENT: .212

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1300	1244	1193	1147	1107	1073	1042
ENERGY (ft.-lbs.)	552	505	464	430	400	375	354
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.7"	-6.5"	-12.1"	-19.5"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.3"	-10.5"	-17.7"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.9"	-7.5"	-14.0"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-3.9"	-9.7"
TRAJ: 125 yds. zero	-.8"	2.4"	4.2"	4.5"	3.1"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.2"	5.9"	7.0"	6.5"	4.2"	0.0
VELOCITY (fps)	1250	1198	1152	1112	1076	1045	1018
ENERGY (ft.-lbs.)	510	469	433	403	378	357	338
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.2"	-13.1"	-21.1"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.7"	-11.4"	-18.9"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.1"	-8.0"	-15.0"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.3"	0.0	-4.2"	-10.3"
TRAJ: 125 yds. zero	-.8"	2.6"	4.5"	4.8"	3.3"	0.0	-5.3"
TRAJ: 150 yds. zero	-.8"	3.5"	6.3"	7.5"	6.9"	4.4"	0.0
VELOCITY (fps)	1200	1154	1113	1078	1046	1019	994
ENERGY (ft.-lbs.)	470	434	404	379	357	339	322
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-7.9"	-14.3"	-22.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.2"	-12.2"	-20.3"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.3"	-8.6"	-16.0"
TRAJ: 100 yds. zero	-.8"	2.0"	3.1"	2.5"	0.0	-4.5"	-11.0"
TRAJ: 125 yds. zero	-.8"	2.9"	4.9"	5.2"	3.6"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.8"	6.8"	8.0"	7.3"	4.7"	0.0
VELOCITY (fps)	1150	1110	1075	1044	1017	992	970
ENERGY (ft.-lbs.)	432	402	377	356	337	321	307
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.8"	-8.6"	-15.6"	-24.7"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.7"	-13.2"	-21.8"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.2"	-17.1"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.8"	-11.7"
TRAJ: 125 yds. zero	-.8"	3.1"	5.3"	5.5"	3.8"	0.0	-6.0"
TRAJ: 150 yds. zero	-.8"	4.1"	7.3"	8.5"	7.8"	5.0"	0.0
VELOCITY (fps)	1100	1066	1036	1010	986	964	944
ENERGY (ft.-lbs.)	395	371	350	333	317	303	291
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.2"	-9.5"	-17.0"	-26.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.3"	-14.2"	-23.5"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.8"	-9.9"	-18.3"
TRAJ: 100 yds. zero	-.8"	2.4"	3.6"	2.9"	0.0	-5.1"	-12.6"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.0"	4.1"	0.0	-6.4"
TRAJ: 150 yds. zero	-.8"	4.5"	7.8"	9.2"	8.4"	5.3"	0.0
VELOCITY (fps)	1050	1022	997	974	953	934	916
ENERGY (ft.-lbs.)	360	341	324	310	297	285	274
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.7"	-10.5"	-18.6"	-29.2"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-7.9"	-15.4"	-25.4"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.7"	-19.8"
TRAJ: 100 yds. zero	-.8"	2.6"	4.0"	3.1"	0.0	-5.5"	-13.5"
TRAJ: 125 yds. zero	-.8"	3.7"	6.2"	6.4"	4.4"	0.0	-6.9"
TRAJ: 150 yds. zero	-.8"	4.9"	8.5"	9.9"	9.0"	5.7"	0.0
VELOCITY (fps)	1000	977	956	936	918	901	884
ENERGY (ft.-lbs.)	326	312	298	286	275	265	255
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.3"	-11.6"	-20.5"	-32.1"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.7"	-16.9"	-27.7"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.5"	-11.7"	-21.5"
TRAJ: 100 yds. zero	-.8"	2.9"	4.3"	3.4"	0.0	-6.0"	-14.6"
TRAJ: 125 yds. zero	-.8"	4.1"	6.7"	7.0"	4.8"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.4"	9.2"	10.7"	9.8"	6.2"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	950	931	913	896	880	864	850
ENERGY (ft.-lbs.)	295	283	272	262	253	244	236
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.0"	-13.0"	-22.9"	-35.6"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.6"	-18.6"	-30.4"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.0"	-12.8"	-23.5"
TRAJ: 100 yds. zero	-.8"	3.3"	4.8"	3.8"	0.0	-6.6"	-16.0"
TRAJ: 125 yds. zero	-.8"	4.6"	7.4"	7.7"	5.3"	0.0	-8.1"
TRAJ: 150 yds. zero	-.8"	5.9"	10.1"	11.8"	10.7"	6.8"	0.0
VELOCITY (fps)	900	884	868	853	839	825	812
ENERGY (ft.-lbs.)	264	255	246	238	230	222	215
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.8"	-14.7"	-25.6"	-39.7"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.7"	-20.7"	-33.8"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.2"	-26.0"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.3"	-17.7"
TRAJ: 125 yds. zero	-.8"	5.1"	8.3"	8.5"	5.8"	0.0	-9.0"
TRAJ: 150 yds. zero	-.8"	6.6"	11.3"	13.0"	11.8"	7.5"	0.0
VELOCITY (fps)	850	836	822	809	796	784	771
ENERGY (ft.-lbs.)	236	228	221	214	207	200	194
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.8"	-16.7"	-28.9"	-44.7"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.1"	-23.2"	-37.8"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.2"	-15.9"	-29.1"
TRAJ: 100 yds. zero	-.8"	4.2"	6.0"	4.7"	0.0	-8.1"	-19.7"
TRAJ: 125 yds. zero	-.8"	5.8"	9.3"	9.5"	6.5"	0.0	-10.0"
TRAJ: 150 yds. zero	-.8"	7.5"	12.6"	14.5"	13.1"	8.3"	0.0
VELOCITY (fps)	800	787	775	763	752	740	729
ENERGY (ft.-lbs.)	209	202	196	190	184	179	174
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.0"	-19.1"	-32.9"	-50.8"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.6"	-26.2"	-42.7"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.0"	-17.9"	-32.7"
TRAJ: 100 yds. zero	-.8"	4.8"	6.8"	5.3"	0.0	-9.1"	-22.2"
TRAJ: 125 yds. zero	-.8"	6.6"	10.5"	10.7"	7.3"	0.0	-11.3"
TRAJ: 150 yds. zero	-.8"	8.5"	14.2"	16.4"	14.8"	9.4"	0.0

9MM CALIBER (.355" Dia.) 124 GRAIN LEAD ROUND NOSE
SECTIONAL DENSITY: .141 BALLISTIC COEFFICIENT: .131

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1200	1128	1070	1023	983	949	919
ENERGY (ft.-lbs.)	396	350	315	288	266	248	232
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.7"	-8.6"	-15.7"	-25.1"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.3"	-6.8"	-13.4"	-22.4"
TRAJ: 75 yds. zero	-.8"	1.2"	1.6"	0.0	-3.6"	-9.5"	-17.7"
TRAJ: 100 yds. zero	-.8"	2.1"	3.4"	2.7"	0.0	-4.9"	-12.3"
TRAJ: 125 yds. zero	-.8"	3.1"	5.4"	5.7"	4.0"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.2"	7.5"	8.9"	8.2"	5.3"	0.0
VELOCITY (fps)	1150	1088	1037	995	960	928	900
ENERGY (ft.-lbs.)	364	326	296	273	254	237	223
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-4.1"	-9.3"	-16.9"	-26.9"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.2"	-14.3"	-23.8"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.1"	-18.8"
TRAJ: 100 yds. zero	-.8"	2.3"	3.6"	2.9"	0.0	-5.2"	-13.0"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.0"	4.2"	0.0	-6.7"
TRAJ: 150 yds. zero	-.8"	4.5"	7.9"	9.4"	8.6"	5.6"	0.0
VELOCITY (fps)	1100	1047	1004	967	935	906	879
ENERGY (ft.-lbs.)	333	302	277	257	241	226	213
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.5"	-10.2"	-18.3"	-29.0"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.8"	-15.3"	-25.5"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.1"	-10.8"	-20.0"
TRAJ: 100 yds. zero	-.8"	2.5"	3.9"	3.1"	0.0	-5.6"	-13.8"
TRAJ: 125 yds. zero	-.8"	3.7"	6.1"	6.5"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	4.8"	8.5"	10.0"	9.2"	5.9"	0.0
VELOCITY (fps)	1050	1006	969	937	908	881	856
ENERGY (ft.-lbs.)	304	279	259	242	227	214	202
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-5.0"	-11.1"	-19.9"	-31.4"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.0"	-8.4"	-16.5"	-27.4"
TRAJ: 75 yds. zero	-.8"	1.7"	2.0"	0.0	-4.5"	-11.5"	-21.4"
TRAJ: 100 yds. zero	-.8"	2.8"	4.2"	3.3"	0.0	-6.0"	-14.7"
TRAJ: 125 yds. zero	-.8"	4.0"	6.6"	6.9"	4.8"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	5.2"	9.1"	10.7"	9.8"	6.3"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	964	932	903	877	853	830
ENERGY (ft.-lbs.)	275	256	239	225	212	200	189
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.6"	-12.3"	-21.8"	-34.3"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.3"	-9.2"	-17.9"	-29.6"
TRAJ: 75 yds. zero	-.8"	1.9"	2.2"	0.0	-4.8"	-12.5"	-23.1"
TRAJ: 100 yds. zero	-.8"	3.1"	4.6"	3.6"	0.0	-6.4"	-15.9"
TRAJ: 125 yds. zero	-.8"	4.4"	7.2"	7.5"	5.2"	0.0	-8.1"
TRAJ: 150 yds. zero	-.8"	5.7"	9.9"	11.6"	10.6"	6.8"	0.0
VELOCITY (fps)	950	920	892	867	843	821	799
ENERGY (ft.-lbs.)	248	233	219	207	196	185	176
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.3"	-13.7"	-24.1"	-37.7"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.6"	-10.1"	-19.7"	-32.4"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.3"	-13.6"	-25.2"
TRAJ: 100 yds. zero	-.8"	3.4"	5.1"	4.0"	0.0	-7.0"	-17.3"
TRAJ: 125 yds. zero	-.8"	4.8"	7.9"	8.2"	5.6"	0.0	-8.8"
TRAJ: 150 yds. zero	-.8"	6.3"	10.8"	12.6"	11.5"	7.4"	0.0
VELOCITY (fps)	900	874	850	827	806	785	766
ENERGY (ft.-lbs.)	223	210	199	188	179	170	161
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.1"	-15.3"	-26.9"	-42.0"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.2"	-21.8"	-35.8"
TRAJ: 75 yds. zero	-.8"	2.4"	2.7"	0.0	-5.9"	-15.1"	-27.8"
TRAJ: 100 yds. zero	-.8"	3.8"	5.6"	4.4"	0.0	-7.7"	-19.0"
TRAJ: 125 yds. zero	-.8"	5.4"	8.7"	9.0"	6.2"	0.0	-9.7"
TRAJ: 150 yds. zero	-.8"	7.0"	11.9"	13.9"	12.7"	8.1"	0.0

38 CALIBER (.357" Dia.) 110 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .123 BALLISTIC COEFFICIENT: .131

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2300	2145	1996	1853	1717	1590	1471
ENERGY (ft.-lbs.)	1292	1123	973	838	720	617	528
TRAJ: 25 yds. zero	-.8"	0.0	0.3"	0.1"	-0.7"	-2.3"	-4.8"
TRAJ: 50 yds. zero	-.8"	-0.2"	0.0	-0.4"	-1.4"	-3.2"	-5.8"
TRAJ: 75 yds. zero	-.8"	-0.0"	0.3"	0.0	-0.9"	-2.5"	-5.0"
TRAJ: 100 yds. zero	-.8"	0.2"	0.7"	0.7"	0.0	-1.4"	-3.7"
TRAJ: 125 yds. zero	-.8"	0.5"	1.3"	1.5"	1.1"	0.0	-2.0"
TRAJ: 150 yds. zero	-.8"	0.8"	1.9"	2.5"	2.4"	1.7"	0.0
VELOCITY (fps)	2250	2097	1950	1809	1676	1551	1435
ENERGY (ft.-lbs.)	1236	1074	928	799	686	587	503
TRAJ: 25 yds. zero	-.8"	0.0	0.3"	0.0	-0.9"	-2.6"	-5.2"
TRAJ: 50 yds. zero	-.8"	-0.2"	0.0	-0.4"	-1.5"	-3.4"	-6.1"
TRAJ: 75 yds. zero	-.8"	-0.0"	0.3"	0.0	-0.9"	-2.7"	-5.3"
TRAJ: 100 yds. zero	-.8"	0.2"	0.8"	0.7"	0.0	-1.5"	-3.9"
TRAJ: 125 yds. zero	-.8"	0.5"	1.3"	1.6"	1.2"	0.0	-2.1"
TRAJ: 150 yds. zero	-.8"	0.9"	2.0"	2.6"	2.6"	1.7"	0.0
VELOCITY (fps)	2200	2049	1904	1765	1635	1513	1400
ENERGY (ft.-lbs.)	1182	1025	885	761	653	559	479
TRAJ: 25 yds. zero	-.8"	0.0	0.3"	0.0	-1.1"	-2.9"	-5.7"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.6"	-3.6"	-6.5"
TRAJ: 75 yds. zero	-.8"	0.0	0.3"	0.0	-1.0"	-2.8"	-5.6"
TRAJ: 100 yds. zero	-.8"	0.3"	0.8"	0.8"	0.0	-1.6"	-4.1"
TRAJ: 125 yds. zero	-.8"	0.6"	1.4"	1.7"	1.3"	0.0	-2.2"
TRAJ: 150 yds. zero	-.8"	0.9"	2.2"	2.8"	2.7"	1.8"	0.0
VELOCITY (fps)	2150	2001	1858	1722	1594	1475	1366
ENERGY (ft.-lbs.)	1129	977	843	724	620	531	456
TRAJ: 25 yds. zero	-.8"	0.0	0.3"	-0.1"	-1.2"	-3.2"	-6.2"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.7"	-3.8"	-6.9"
TRAJ: 75 yds. zero	-.8"	0.0	0.3"	0.0	-1.1"	-3.0"	-5.9"
TRAJ: 100 yds. zero	-.8"	0.3"	0.9"	0.8"	0.0	-1.7"	-4.3"
TRAJ: 125 yds. zero	-.8"	0.6"	1.5"	1.8"	1.3"	0.0	-2.3"
TRAJ: 150 yds. zero	-.8"	1.0"	2.3"	3.0"	2.9"	1.9"	0.0
VELOCITY (fps)	2100	1953	1812	1679	1553	1438	1332
ENERGY (ft.-lbs.)	1077	931	802	688	589	505	434
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.2"	-1.4"	-3.5"	-6.7"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.9"	-4.1"	-7.4"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.1"	-3.2"	-6.3"
TRAJ: 100 yds. zero	-.8"	0.4"	0.9"	0.9"	0.0	-1.8"	-4.6"
TRAJ: 125 yds. zero	-.8"	0.7"	1.6"	1.9"	1.4"	0.0	-2.5"
TRAJ: 150 yds. zero	-.8"	1.1"	2.5"	3.1"	3.0"	2.0"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2050	1905	1767	1636	1514	1401	1300
ENERGY (ft.-lbs.)	1026	886	762	653	559	479	413
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.6"	-3.9"	-7.2"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.0"	-4.4"	-7.8"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.4"	-6.6"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.9"	-4.8"
TRAJ: 125 yds. zero	-.8"	0.8"	1.7"	2.0"	1.5"	0.0	-2.6"
TRAJ: 150 yds. zero	-.8"	1.2"	2.6"	3.3"	3.2"	2.2"	0.0
VELOCITY (fps)	2000	1857	1721	1593	1474	1365	1268
ENERGY (ft.-lbs.)	977	842	724	620	531	455	393
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.4"	-1.8"	-4.2"	-7.8"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.2"	-4.7"	-8.3"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.3"	-3.6"	-7.0"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	1.0"	0.0	-2.0"	-5.1"
TRAJ: 125 yds. zero	-.8"	0.8"	1.9"	2.1"	1.6"	0.0	-2.7"
TRAJ: 150 yds. zero	-.8"	1.3"	2.8"	3.5"	3.4"	2.3"	0.0
VELOCITY (fps)	1950	1809	1676	1551	1436	1331	1238
ENERGY (ft.-lbs.)	929	800	686	588	503	432	374
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.5"	-2.0"	-4.6"	-8.5"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.3"	-5.0"	-8.9"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.8"	-7.5"
TRAJ: 100 yds. zero	-.8"	0.5"	1.2"	1.0"	0.0	-2.1"	-5.4"
TRAJ: 125 yds. zero	-.8"	0.9"	2.0"	2.3"	1.7"	0.0	-2.9"
TRAJ: 150 yds. zero	-.8"	1.4"	3.0"	3.7"	3.6"	2.4"	0.0
VELOCITY (fps)	1900	1762	1631	1510	1397	1297	1209
ENERGY (ft.-lbs.)	882	758	650	556	477	411	357
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.6"	-2.3"	-5.1"	-9.2"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.5"	-5.3"	-9.5"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.5"	-4.0"	-7.9"
TRAJ: 100 yds. zero	-.8"	0.6"	1.2"	1.1"	0.0	-2.2"	-5.7"
TRAJ: 125 yds. zero	-.8"	1.0"	2.1"	2.4"	1.8"	0.0	-3.1"
TRAJ: 150 yds. zero	-.8"	1.5"	3.2"	4.0"	3.8"	2.6"	0.0
VELOCITY (fps)	1850	1715	1587	1468	1360	1264	1181
ENERGY (ft.-lbs.)	836	718	615	527	452	390	340
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.7"	-2.6"	-5.5"	-9.9"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.7"	-5.7"	-10.1"
TRAJ: 75 yds. zero	-.8"	0.2"	0.6"	0.0	-1.6"	-4.3"	-8.4"
TRAJ: 100 yds. zero	-.8"	0.6"	1.3"	1.2"	0.0	-2.4"	-6.1"
TRAJ: 125 yds. zero	-.8"	1.1"	2.3"	2.6"	1.9"	0.0	-3.2"
TRAJ: 150 yds. zero	-.8"	1.7"	3.4"	4.2"	4.0"	2.7"	0.0
VELOCITY (fps)	1800	1667	1543	1428	1324	1232	1154
ENERGY (ft.-lbs.)	791	679	581	498	428	371	325
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.9"	-2.8"	-6.0"	-10.7"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.9"	-6.1"	-10.7"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.6"	-8.9"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.3"	0.0	-2.5"	-6.4"
TRAJ: 125 yds. zero	-.8"	1.2"	2.4"	2.8"	2.0"	0.0	-3.4"
TRAJ: 150 yds. zero	-.8"	1.8"	3.6"	4.5"	4.3"	2.9"	0.0
VELOCITY (fps)	1750	1620	1499	1388	1288	1201	1129
ENERGY (ft.-lbs.)	748	641	549	470	405	353	311
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.2"	-6.6"	-11.5"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.1"	-6.5"	-11.4"
TRAJ: 75 yds. zero	-.8"	0.3"	0.7"	0.0	-1.8"	-4.9"	-9.5"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.7"	-6.8"
TRAJ: 125 yds. zero	-.8"	1.3"	2.6"	2.9"	2.1"	0.0	-3.6"
TRAJ: 150 yds. zero	-.8"	1.9"	3.8"	4.7"	4.5"	3.0"	0.0
VELOCITY (fps)	1700	1573	1456	1349	1254	1172	1106
ENERGY (ft.-lbs.)	706	605	518	444	384	336	298
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.2"	-3.5"	-7.2"	-12.4"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.1"	-3.3"	-7.0"	-12.2"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.2"	-10.1"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.4"	0.0	-2.8"	-7.2"
TRAJ: 125 yds. zero	-.8"	1.4"	2.8"	3.1"	2.3"	0.0	-3.8"
TRAJ: 150 yds. zero	-.8"	2.1"	4.1"	5.0"	4.8"	3.2"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1650	1527	1413	1311	1221	1145	1083
ENERGY (ft.-lbs.)	665	569	488	419	364	320	287
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.4"	-3.8"	-7.8"	-13.4"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.6"	-7.5"	-13.0"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.0"	-5.5"	-10.7"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0	-3.0"	-7.6"
TRAJ: 125 yds. zero	-.8"	1.6"	3.0"	3.3"	2.4"	0.0	-4.0"
TRAJ: 150 yds. zero	-.8"	2.2"	4.3"	5.3"	5.1"	3.4"	0.0
VELOCITY (fps)	1600	1480	1371	1273	1189	1119	1062
ENERGY (ft.-lbs.)	625	535	459	396	345	306	276
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.5"	-4.2"	-8.5"	-14.4"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-3.8"	-8.0"	-13.8"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.2"	-5.9"	-11.3"
TRAJ: 100 yds. zero	-.8"	1.1"	1.9"	1.6"	0.0	-3.2"	-8.1"
TRAJ: 125 yds. zero	-.8"	1.7"	3.2"	3.5"	2.5"	0.0	-4.3"
TRAJ: 150 yds. zero	-.8"	2.4"	4.6"	5.7"	5.4"	3.6"	0.0
VELOCITY (fps)	1550	1434	1330	1237	1158	1094	1043
ENERGY (ft.-lbs.)	587	502	432	374	328	292	265
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.7"	-4.7"	-9.2"	-15.5"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.4"	-4.1"	-8.5"	-14.7"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.3"	-6.3"	-12.0"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.7"	0.0	-3.4"	-8.5"
TRAJ: 125 yds. zero	-.8"	1.8"	3.4"	3.8"	2.7"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.6"	4.9"	6.0"	5.7"	3.7"	0.0
VELOCITY (fps)	1500	1389	1289	1202	1130	1071	1024
ENERGY (ft.-lbs.)	549	471	406	353	312	280	256
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-2.0"	-5.1"	-9.9"	-16.6"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.4"	-9.1"	-15.7"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.5"	-6.7"	-12.7"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.9"	0.0	-3.6"	-9.0"
TRAJ: 125 yds. zero	-.8"	2.0"	3.6"	4.0"	2.8"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.8"	5.2"	6.4"	6.0"	3.9"	0.0
VELOCITY (fps)	1450	1344	1249	1169	1102	1049	1006
ENERGY (ft.-lbs.)	513	441	381	333	297	269	247
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.6"	-10.8"	-17.9"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.8"	-9.7"	-16.7"
TRAJ: 75 yds. zero	-.8"	0.7"	1.1"	0.0	-2.7"	-7.1"	-13.5"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	2.0"	0.0	-3.8"	-9.5"
TRAJ: 125 yds. zero	-.8"	2.2"	3.9"	4.2"	3.0"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.0"	5.6"	6.7"	6.3"	4.1"	0.0
VELOCITY (fps)	1400	1299	1211	1137	1077	1028	988
ENERGY (ft.-lbs.)	479	412	358	316	283	258	238
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.1"	-11.6"	-19.1"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-5.1"	-10.4"	-17.7"
TRAJ: 75 yds. zero	-.8"	0.8"	1.2"	0.0	-2.8"	-7.5"	-14.2"
TRAJ: 100 yds. zero	-.8"	1.5"	2.6"	2.1"	0.0	-4.0"	-10.0"
TRAJ: 125 yds. zero	-.8"	2.3"	4.2"	4.5"	3.2"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.2"	5.9"	7.1"	6.7"	4.3"	0.0
VELOCITY (fps)	1350	1255	1173	1106	1052	1008	971
ENERGY (ft.-lbs.)	445	385	336	299	270	248	230
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.7"	-6.7"	-12.5"	-20.5"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.5"	-11.1"	-18.8"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-3.0"	-8.0"	-15.0"
TRAJ: 100 yds. zero	-.8"	1.7"	2.8"	2.3"	0.0	-4.2"	-10.5"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.8"	3.4"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.4"	6.3"	7.5"	7.0"	4.6"	0.0
VELOCITY (fps)	1300	1212	1137	1077	1029	988	954
ENERGY (ft.-lbs.)	413	358	316	283	258	239	222
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.0"	-7.3"	-13.5"	-21.9"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.0"	-5.9"	-11.8"	-19.9"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.2"	-8.4"	-15.9"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.4"	0.0	-4.4"	-11.1"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.1"	3.6"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.7"	6.6"	7.9"	7.4"	4.8"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1250	1169	1103	1050	1006	969	936
ENERGY (ft.-lbs.)	382	334	297	269	247	229	214
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-7.9"	-14.5"	-23.5"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.3"	-12.6"	-21.1"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.4"	-9.0"	-16.8"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.7"	-11.6"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.4"	3.7"	0.0	-6.0"
TRAJ: 150 yds. zero	-.8"	3.9"	7.0"	8.4"	7.8"	5.0"	0.0
VELOCITY (fps)	1200	1128	1070	1023	983	949	919
ENERGY (ft.-lbs.)	352	311	279	255	236	220	206
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.7"	-8.6"	-15.7"	-25.1"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.3"	-6.8"	-13.4"	-22.4"
TRAJ: 75 yds. zero	-.8"	1.2"	1.6"	0.0	-3.6"	-9.5"	-17.7"
TRAJ: 100 yds. zero	-.8"	2.1"	3.4"	2.7"	0.0	-4.9"	-12.3"
TRAJ: 125 yds. zero	-.8"	3.1"	5.4"	5.7"	4.0"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.2"	7.5"	8.9"	8.2"	5.3"	0.0
VELOCITY (fps)	1150	1088	1037	995	960	928	900
ENERGY (ft.-lbs.)	323	289	263	242	225	210	198
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-4.1"	-9.3"	-16.9"	-26.9"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.2"	-14.3"	-23.8"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.1"	-18.8"
TRAJ: 100 yds. zero	-.8"	2.3"	3.6"	2.9"	0.0	-5.2"	-13.0"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.0"	4.2"	0.0	-6.7"
TRAJ: 150 yds. zero	-.8"	4.5"	7.9"	9.4"	8.6"	5.6"	0.0
VELOCITY (fps)	1100	1047	1004	967	935	906	879
ENERGY (ft.-lbs.)	295	268	246	228	213	200	189
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.5"	-10.2"	-18.3"	-29.0"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.8"	-15.3"	-25.5"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.1"	-10.8"	-20.0"
TRAJ: 100 yds. zero	-.8"	2.5"	3.9"	3.1"	0.0	-5.6"	-13.8"
TRAJ: 125 yds. zero	-.8"	3.7"	6.1"	6.5"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	4.8"	8.5"	10.0"	9.2"	5.9"	0.0
VELOCITY (fps)	1050	1006	969	937	908	881	856
ENERGY (ft.-lbs.)	269	247	229	214	201	189	179
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-5.0"	-11.1"	-19.9"	-31.4"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.0"	-8.4"	-16.5"	-27.4"
TRAJ: 75 yds. zero	-.8"	1.7"	2.0"	0.0	-4.5"	-11.5"	-21.4"
TRAJ: 100 yds. zero	-.8"	2.8"	4.2"	3.3"	0.0	-6.0"	-14.7"
TRAJ: 125 yds. zero	-.8"	4.0"	6.6"	6.9"	4.8"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	5.2"	9.1"	10.7"	9.8"	6.3"	0.0
VELOCITY (fps)	1000	964	932	903	877	853	830
ENERGY (ft.-lbs.)	244	227	212	199	188	177	168
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.6"	-12.3"	-21.8"	-34.3"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.3"	-9.2"	-17.9"	-29.6"
TRAJ: 75 yds. zero	-.8"	1.9"	2.2"	0.0	-4.8"	-12.5"	-23.1"
TRAJ: 100 yds. zero	-.8"	3.1"	4.6"	3.6"	0.0	-6.4"	-15.9"
TRAJ: 125 yds. zero	-.8"	4.4"	7.2"	7.5"	5.2"	0.0	-8.1"
TRAJ: 150 yds. zero	-.8"	5.7"	9.9"	11.6"	10.6"	6.8"	0.0
VELOCITY (fps)	950	920	892	867	843	821	799
ENERGY (ft.-lbs.)	220	207	194	183	173	164	156
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.3"	-13.7"	-24.1"	-37.7"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.6"	-10.1"	-19.7"	-32.4"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.3"	-13.6"	-25.2"
TRAJ: 100 yds. zero	-.8"	3.4"	5.1"	4.0"	0.0	-7.0"	-17.3"
TRAJ: 125 yds. zero	-.8"	4.8"	7.9"	8.2"	5.6"	0.0	-8.8"
TRAJ: 150 yds. zero	-.8"	6.3"	10.8"	12.6"	11.5"	7.4"	0.0
VELOCITY (fps)	900	874	850	827	806	785	766
ENERGY (ft.-lbs.)	198	187	176	167	159	151	143
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.1"	-15.3"	-26.9"	-42.0"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.2"	-21.8"	-35.8"
TRAJ: 75 yds. zero	-.8"	2.4"	2.7"	0.0	-5.9"	-15.1"	-27.8"
TRAJ: 100 yds. zero	-.8"	3.8"	5.6"	4.4"	0.0	-7.7"	-19.0"
TRAJ: 125 yds. zero	-.8"	5.4"	8.7"	9.0"	6.2"	0.0	-9.7"
TRAJ: 150 yds. zero	-.8"	7.0"	11.9"	13.9"	12.7"	8.1"	0.0

38 CALIBER (.357" Dia.) 125 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .140 BALLISTIC COEFFICIENT: .151

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2200	2068	1941	1819	1703	1592	1489
ENERGY (ft.-lbs.)	1343	1187	1046	919	805	704	615
TRAJ: 25 yds. zero	-.8"	0.0	0.3"	0.0	-0.9"	-2.6"	-5.2"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.4"	-1.5"	-3.4"	-6.1"
TRAJ: 75 yds. zero	-.8"	-0.0"	0.3"	0.0	-0.9"	-2.6"	-5.2"
TRAJ: 100 yds. zero	-.8"	0.2"	0.8"	0.7"	0.0	-1.5"	-3.8"
TRAJ: 125 yds. zero	-.8"	0.5"	1.3"	1.6"	1.2"	0.0	-2.0"
TRAJ: 150 yds. zero	-.8"	0.9"	2.0"	2.6"	2.5"	1.7"	0.0
VELOCITY (fps)	2150	2020	1895	1775	1661	1553	1452
ENERGY (ft.-lbs.)	1283	1132	996	874	765	669	585
TRAJ: 25 yds. zero	-.8"	0.0	0.3"	-0.1"	-1.1"	-2.9"	-5.6"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.6"	-3.6"	-6.4"
TRAJ: 75 yds. zero	-.8"	0.0	0.3"	0.0	-1.0"	-2.8"	-5.5"
TRAJ: 100 yds. zero	-.8"	0.3"	0.8"	0.8"	0.0	-1.5"	-4.0"
TRAJ: 125 yds. zero	-.8"	0.6"	1.4"	1.7"	1.2"	0.0	-2.1"
TRAJ: 150 yds. zero	-.8"	0.9"	2.1"	2.7"	2.7"	1.8"	0.0
VELOCITY (fps)	2100	1972	1849	1731	1619	1513	1415
ENERGY (ft.-lbs.)	1224	1079	948	831	727	635	556
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.2"	-1.3"	-3.2"	-6.1"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.8"	-3.8"	-6.9"
TRAJ: 75 yds. zero	-.8"	0.1"	0.3"	0.0	-1.1"	-3.0"	-5.8"
TRAJ: 100 yds. zero	-.8"	0.3"	0.9"	0.8"	0.0	-1.6"	-4.2"
TRAJ: 125 yds. zero	-.8"	0.6"	1.5"	1.8"	1.3"	0.0	-2.3"
TRAJ: 150 yds. zero	-.8"	1.0"	2.3"	2.9"	2.8"	1.9"	0.0
VELOCITY (fps)	2050	1924	1803	1687	1577	1474	1379
ENERGY (ft.-lbs.)	1166	1027	902	790	690	603	528
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.2"	-1.5"	-3.6"	-6.7"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-1.9"	-4.1"	-7.3"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.1"	-3.2"	-6.2"
TRAJ: 100 yds. zero	-.8"	0.4"	0.9"	0.9"	0.0	-1.7"	-4.5"
TRAJ: 125 yds. zero	-.8"	0.7"	1.6"	1.9"	1.4"	0.0	-2.4"
TRAJ: 150 yds. zero	-.8"	1.1"	2.4"	3.1"	3.0"	2.0"	0.0
VELOCITY (fps)	2000	1876	1757	1643	1536	1436	1344
ENERGY (ft.-lbs.)	1110	976	856	749	655	572	502
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.7"	-3.9"	-7.2"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.0"	-4.4"	-7.8"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.4"	-6.5"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.8"	-4.7"
TRAJ: 125 yds. zero	-.8"	0.8"	1.8"	2.0"	1.5"	0.0	-2.5"
TRAJ: 150 yds. zero	-.8"	1.2"	2.6"	3.3"	3.1"	2.1"	0.0
VELOCITY (fps)	1950	1828	1711	1600	1496	1399	1310
ENERGY (ft.-lbs.)	1055	927	812	710	621	543	477
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.4"	-1.9"	-4.3"	-7.8"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.2"	-4.7"	-8.3"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.3"	-3.6"	-6.9"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	1.0"	0.0	-1.9"	-5.0"
TRAJ: 125 yds. zero	-.8"	0.9"	1.9"	2.1"	1.6"	0.0	-2.7"
TRAJ: 150 yds. zero	-.8"	1.3"	2.8"	3.5"	3.3"	2.2"	0.0
VELOCITY (fps)	1900	1780	1665	1557	1456	1362	1277
ENERGY (ft.-lbs.)	1002	879	770	673	588	515	453
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.6"	-2.1"	-4.7"	-8.5"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.4"	-5.0"	-8.8"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.8"	-7.4"
TRAJ: 100 yds. zero	-.8"	0.5"	1.2"	1.0"	0.0	-2.1"	-5.3"
TRAJ: 125 yds. zero	-.8"	0.9"	2.0"	2.3"	1.7"	0.0	-2.8"
TRAJ: 150 yds. zero	-.8"	1.4"	2.9"	3.7"	3.5"	2.4"	0.0
VELOCITY (fps)	1850	1732	1620	1514	1416	1326	1246
ENERGY (ft.-lbs.)	950	833	728	636	557	488	430
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.7"	-2.4"	-5.2"	-9.2"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.5"	-5.4"	-9.4"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.5"	-4.0"	-7.8"
TRAJ: 100 yds. zero	-.8"	0.6"	1.3"	1.1"	0.0	-2.2"	-5.6"
TRAJ: 125 yds. zero	-.8"	1.0"	2.1"	2.4"	1.8"	0.0	-3.0"
TRAJ: 150 yds. zero	-.8"	1.5"	3.1"	3.9"	3.7"	2.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1800	1684	1575	1472	1377	1291	1215
ENERGY (ft.-lbs.)	899	787	688	602	527	463	410
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.8"	-2.7"	-5.6"	-9.9"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.7"	-5.7"	-10.0"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.6"	-4.3"	-8.3"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.2"	0.0	-2.3"	-6.0"
TRAJ: 125 yds. zero	-.8"	1.1"	2.3"	2.6"	1.9"	0.0	-3.2"
TRAJ: 150 yds. zero	-.8"	1.7"	3.3"	4.2"	4.0"	2.6"	0.0
VELOCITY (fps)	1750	1637	1530	1431	1340	1257	1185
ENERGY (ft.-lbs.)	850	744	650	568	498	439	390
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.0"	-6.2"	-10.8"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-0.9"	-2.9"	-6.1"	-10.7"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.6"	-8.9"
TRAJ: 100 yds. zero	-.8"	0.7"	1.5"	1.3"	0.0	-2.5"	-6.3"
TRAJ: 125 yds. zero	-.8"	1.2"	2.5"	2.7"	2.0"	0.0	-3.4"
TRAJ: 150 yds. zero	-.8"	1.8"	3.6"	4.4"	4.2"	2.8"	0.0
VELOCITY (fps)	1700	1590	1486	1390	1303	1225	1158
ENERGY (ft.-lbs.)	802	701	613	536	471	416	372
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.1"	-3.3"	-6.7"	-11.6"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.2"	-6.6"	-11.4"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.9"	-9.4"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.4"	0.0	-2.6"	-6.7"
TRAJ: 125 yds. zero	-.8"	1.3"	2.6"	2.9"	2.1"	0.0	-3.6"
TRAJ: 150 yds. zero	-.8"	1.9"	3.8"	4.7"	4.5"	3.0"	0.0
VELOCITY (fps)	1650	1543	1442	1350	1267	1193	1131
ENERGY (ft.-lbs.)	756	660	577	506	445	395	355
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-3.6"	-7.3"	-12.6"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.4"	-7.0"	-12.2"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.2"	-10.0"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.4"	0.0	-2.8"	-7.1"
TRAJ: 125 yds. zero	-.8"	1.5"	2.8"	3.1"	2.2"	0.0	-3.8"
TRAJ: 150 yds. zero	-.8"	2.1"	4.1"	5.0"	4.8"	3.1"	0.0
VELOCITY (fps)	1600	1496	1399	1311	1232	1164	1106
ENERGY (ft.-lbs.)	710	621	543	477	421	376	340
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.5"	-4.0"	-8.0"	-13.6"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.7"	-7.6"	-13.1"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.6"	-10.7"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0	-3.0"	-7.6"
TRAJ: 125 yds. zero	-.8"	1.6"	3.0"	3.3"	2.4"	0.0	-4.0"
TRAJ: 150 yds. zero	-.8"	2.3"	4.4"	5.3"	5.0"	3.3"	0.0
VELOCITY (fps)	1550	1449	1356	1272	1198	1135	1083
ENERGY (ft.-lbs.)	667	583	510	449	398	358	325
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.7"	-4.4"	-8.7"	-14.6"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-3.9"	-8.1"	-13.9"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-5.9"	-11.3"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.2"	-8.0"
TRAJ: 125 yds. zero	-.8"	1.7"	3.2"	3.6"	2.5"	0.0	-4.2"
TRAJ: 150 yds. zero	-.8"	2.4"	4.6"	5.7"	5.3"	3.5"	0.0
VELOCITY (fps)	1500	1403	1314	1235	1166	1108	1061
ENERGY (ft.-lbs.)	624	546	479	423	377	341	312
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.9"	-4.9"	-9.4"	-15.8"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.4"	-4.2"	-8.7"	-14.9"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.4"	-6.3"	-12.0"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.8"	0.0	-3.4"	-8.5"
TRAJ: 125 yds. zero	-.8"	1.9"	3.5"	3.8"	2.7"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.6"	5.0"	6.0"	5.7"	3.7"	0.0
VELOCITY (fps)	1450	1357	1273	1199	1136	1083	1040
ENERGY (ft.-lbs.)	583	511	450	399	358	326	300
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.1"	-5.3"	-10.2"	-17.0"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.6"	-9.3"	-15.9"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.5"	-6.7"	-12.8"
TRAJ: 100 yds. zero	-.8"	1.3"	2.3"	1.9"	0.0	-3.6"	-9.0"
TRAJ: 125 yds. zero	-.8"	2.0"	3.7"	4.0"	2.9"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.8"	5.3"	6.4"	6.0"	3.9"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1400	1312	1233	1164	1107	1059	1019
ENERGY (ft.-lbs.)	544	477	422	376	340	311	288
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.4"	-5.8"	-11.1"	-18.3"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-4.9"	-9.9"	-16.9"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.7"	-7.2"	-13.6"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.0"	0.0	-3.8"	-9.5"
TRAJ: 125 yds. zero	-.8"	2.2"	4.0"	4.3"	3.0"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.0"	5.6"	6.8"	6.3"	4.1"	0.0
VELOCITY (fps)	1350	1267	1193	1131	1079	1036	1000
ENERGY (ft.-lbs.)	506	445	395	355	323	298	277
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.6"	-6.4"	-12.0"	-19.7"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.3"	-10.6"	-18.0"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.9"	-7.6"	-14.4"
TRAJ: 100 yds. zero	-.8"	1.6"	2.6"	2.2"	0.0	-4.0"	-10.1"
TRAJ: 125 yds. zero	-.8"	2.4"	4.3"	4.6"	3.2"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.3"	6.0"	7.2"	6.7"	4.3"	0.0
VELOCITY (fps)	1300	1222	1156	1100	1053	1014	981
ENERGY (ft.-lbs.)	469	415	371	336	308	286	267
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-2.9"	-7.0"	-13.0"	-21.1"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.0"	-5.7"	-11.4"	-19.2"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.1"	-8.1"	-15.3"
TRAJ: 100 yds. zero	-.8"	1.8"	2.8"	2.3"	0.0	-4.3"	-10.6"
TRAJ: 125 yds. zero	-.8"	2.6"	4.6"	4.9"	3.4"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.5"	6.4"	7.6"	7.1"	4.6"	0.0
VELOCITY (fps)	1250	1179	1119	1069	1028	993	962
ENERGY (ft.-lbs.)	434	386	348	317	293	274	257
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.3"	-7.6"	-14.1"	-22.7"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.1"	-12.2"	-20.4"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.3"	-8.6"	-16.2"
TRAJ: 100 yds. zero	-.8"	1.9"	3.1"	2.5"	0.0	-4.5"	-11.2"
TRAJ: 125 yds. zero	-.8"	2.8"	4.9"	5.2"	3.6"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	3.8"	6.8"	8.1"	7.5"	4.8"	0.0
VELOCITY (fps)	1200	1137	1084	1040	1003	971	942
ENERGY (ft.-lbs.)	400	359	326	300	279	262	247
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.6"	-8.3"	-15.2"	-24.3"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.3"	-6.6"	-13.0"	-21.7"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.5"	-9.2"	-17.1"
TRAJ: 100 yds. zero	-.8"	2.1"	3.3"	2.6"	0.0	-4.8"	-11.8"
TRAJ: 125 yds. zero	-.8"	3.0"	5.2"	5.5"	3.8"	0.0	-6.1"
TRAJ: 150 yds. zero	-.8"	4.1"	7.2"	8.6"	7.9"	5.1"	0.0
VELOCITY (fps)	1150	1095	1049	1011	978	949	922
ENERGY (ft.-lbs.)	367	333	306	284	265	250	236
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-4.0"	-9.1"	-16.4"	-26.2"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.1"	-13.9"	-23.2"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.8"	-9.8"	-18.2"
TRAJ: 100 yds. zero	-.8"	2.3"	3.5"	2.8"	0.0	-5.1"	-12.6"
TRAJ: 125 yds. zero	-.8"	3.3"	5.6"	5.9"	4.1"	0.0	-6.5"
TRAJ: 150 yds. zero	-.8"	4.4"	7.7"	9.1"	8.4"	5.4"	0.0
VELOCITY (fps)	1100	1054	1015	981	951	925	900
ENERGY (ft.-lbs.)	336	308	286	267	251	237	225
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.4"	-9.9"	-17.8"	-28.2"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.6"	-14.9"	-24.8"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.0"	-10.5"	-19.4"
TRAJ: 100 yds. zero	-.8"	2.5"	3.8"	3.0"	0.0	-5.4"	-13.4"
TRAJ: 125 yds. zero	-.8"	3.6"	6.0"	6.3"	4.3"	0.0	-6.8"
TRAJ: 150 yds. zero	-.8"	4.7"	8.3"	9.7"	8.9"	5.7"	0.0
VELOCITY (fps)	1050	1012	978	949	923	898	876
ENERGY (ft.-lbs.)	306	284	266	250	236	224	213
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.9"	-10.9"	-19.4"	-30.7"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-2.9"	-8.3"	-16.1"	-26.7"
TRAJ: 75 yds. zero	-.8"	1.6"	2.0"	0.0	-4.4"	-11.3"	-20.8"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.3"	0.0	-5.8"	-14.3"
TRAJ: 125 yds. zero	-.8"	3.9"	6.5"	6.8"	4.6"	0.0	-7.3"
TRAJ: 150 yds. zero	-.8"	5.1"	8.9"	10.4"	9.5"	6.1"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	968	940	914	891	868	848
ENERGY (ft.-lbs.)	278	260	245	232	220	209	199
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.5"	-12.0"	-21.3"	-33.5"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-9.0"	-17.6"	-29.0"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.7"	-12.2"	-22.5"
TRAJ: 100 yds. zero	-.8"	3.0"	4.5"	3.5"	0.0	-6.3"	-15.4"
TRAJ: 125 yds. zero	-.8"	4.3"	7.0"	7.3"	5.0"	0.0	-7.9"
TRAJ: 150 yds. zero	-.8"	5.6"	9.7"	11.3"	10.3"	6.6"	0.0
VELOCITY (fps)	950	923	899	876	855	835	816
ENERGY (ft.-lbs.)	250	237	224	213	203	194	185
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.2"	-13.4"	-23.7"	-37.0"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.6"	-9.9"	-19.3"	-31.8"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.2"	-13.4"	-24.6"
TRAJ: 100 yds. zero	-.8"	3.4"	5.0"	3.9"	0.0	-6.9"	-16.8"
TRAJ: 125 yds. zero	-.8"	4.7"	7.7"	8.0"	5.5"	0.0	-8.6"
TRAJ: 150 yds. zero	-.8"	6.2"	10.6"	12.3"	11.2"	7.2"	0.0
VELOCITY (fps)	900	877	856	836	817	799	781
ENERGY (ft.-lbs.)	225	214	203	194	185	177	169
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.0"	-15.1"	-26.4"	-41.2"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.1"	-21.4"	-35.1"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.8"	-14.8"	-27.2"
TRAJ: 100 yds. zero	-.8"	3.8"	5.5"	4.3"	0.0	-7.6"	-18.5"
TRAJ: 125 yds. zero	-.8"	5.3"	8.6"	8.9"	6.1"	0.0	-9.5"
TRAJ: 150 yds. zero	-.8"	6.9"	11.7"	13.6"	12.4"	7.9"	0.0
VELOCITY (fps)	850	830	811	793	776	759	743
ENERGY (ft.-lbs.)	201	191	183	175	167	160	153
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.0"	-17.1"	-29.8"	-46.3"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.5"	-12.4"	-23.9"	-39.2"
TRAJ: 75 yds. zero	-.8"	2.7"	3.0"	0.0	-6.4"	-16.5"	-30.3"
TRAJ: 100 yds. zero	-.8"	4.3"	6.2"	4.8"	0.0	-8.4"	-20.6"
TRAJ: 125 yds. zero	-.8"	6.0"	9.6"	9.9"	6.7"	0.0	-10.5"
TRAJ: 150 yds. zero	-.8"	7.7"	13.1"	15.1"	13.7"	8.8"	0.0
VELOCITY (fps)	800	782	766	749	733	718	703
ENERGY (ft.-lbs.)	178	170	163	156	149	143	137
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.2"	-19.5"	-33.9"	-52.4"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.1"	-14.0"	-27.0"	-44.2"
TRAJ: 75 yds. zero	-.8"	3.1"	3.4"	0.0	-7.3"	-18.6"	-34.1"
TRAJ: 100 yds. zero	-.8"	4.9"	7.0"	5.4"	0.0	-9.5"	-23.2"
TRAJ: 125 yds. zero	-.8"	6.8"	10.8"	11.1"	7.6"	0.0	-11.8"
TRAJ: 150 yds. zero	-.8"	8.7"	14.7"	17.0"	15.4"	9.8"	0.0

38 CALIBER (.357" Dia.) 125 GRAIN XTP FLAT POINT
SECTIONAL DENSITY: .140 BALLISTIC COEFFICIENT: .148

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2200	2066	1936	1812	1694	1582	1476
ENERGY (ft.-lbs.)	1343	1184	1040	911	796	694	605
TRAJ: 25 yds. zero	-.8"	0.0	0.3"	0.0	-1.0"	-2.7"	-5.2"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.4"	-1.5"	-3.4"	-6.1"
TRAJ: 75 yds. zero	-.8"	-0.0"	0.3"	0.0	-1.0"	-2.7"	-5.2"
TRAJ: 100 yds. zero	-.8"	0.2"	0.8"	0.7"	0.0	-1.5"	-3.8"
TRAJ: 125 yds. zero	-.8"	0.5"	1.4"	1.6"	1.2"	0.0	-2.0"
TRAJ: 150 yds. zero	-.8"	0.9"	2.0"	2.6"	2.5"	1.7"	0.0
VELOCITY (fps)	2150	2017	1890	1768	1652	1542	1440
ENERGY (ft.-lbs.)	1283	1130	991	867	757	660	575
TRAJ: 25 yds. zero	-.8"	0.0	0.3"	-0.1"	-1.1"	-3.0"	-5.7"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.6"	-3.6"	-6.5"
TRAJ: 75 yds. zero	-.8"	0.0	0.3"	0.0	-1.0"	-2.8"	-5.6"
TRAJ: 100 yds. zero	-.8"	0.3"	0.8"	0.8"	0.0	-1.6"	-4.0"
TRAJ: 125 yds. zero	-.8"	0.6"	1.4"	1.7"	1.2"	0.0	-2.2"
TRAJ: 150 yds. zero	-.8"	1.0"	2.2"	2.8"	2.7"	1.8"	0.0
VELOCITY (fps)	2100	1969	1844	1724	1610	1503	1404
ENERGY (ft.-lbs.)	1224	1076	943	825	719	627	547
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.2"	-1.3"	-3.3"	-6.2"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.8"	-3.9"	-6.9"
TRAJ: 75 yds. zero	-.8"	0.1"	0.3"	0.0	-1.1"	-3.0"	-5.9"
TRAJ: 100 yds. zero	-.8"	0.3"	0.9"	0.8"	0.0	-1.6"	-4.3"
TRAJ: 125 yds. zero	-.8"	0.7"	1.5"	1.8"	1.3"	0.0	-2.3"
TRAJ: 150 yds. zero	-.8"	1.0"	2.3"	2.9"	2.8"	1.9"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2050	1921	1798	1680	1569	1464	1368
ENERGY (ft.-lbs.)	1166	1024	897	783	683	595	520
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.5"	-3.6"	-6.7"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-1.9"	-4.1"	-7.4"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.1"	-3.2"	-6.2"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.7"	-4.5"
TRAJ: 125 yds. zero	-.8"	0.7"	1.7"	1.9"	1.4"	0.0	-2.4"
TRAJ: 150 yds. zero	-.8"	1.1"	2.5"	3.1"	3.0"	2.0"	0.0
VELOCITY (fps)	2000	1873	1752	1636	1528	1427	1334
ENERGY (ft.-lbs.)	1110	974	852	743	648	565	494
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.7"	-4.0"	-7.3"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.0"	-4.4"	-7.8"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.4"	-6.6"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.9"	-4.8"
TRAJ: 125 yds. zero	-.8"	0.8"	1.8"	2.0"	1.5"	0.0	-2.6"
TRAJ: 150 yds. zero	-.8"	1.2"	2.6"	3.3"	3.2"	2.1"	0.0
VELOCITY (fps)	1950	1825	1706	1593	1487	1389	1300
ENERGY (ft.-lbs.)	1055	925	808	704	614	536	469
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.5"	-1.9"	-4.3"	-7.9"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.2"	-4.7"	-8.4"
TRAJ: 75 yds. zero	-.8"	0.2"	0.4"	0.0	-1.3"	-3.6"	-7.0"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	1.0"	0.0	-2.0"	-5.1"
TRAJ: 125 yds. zero	-.8"	0.9"	1.9"	2.2"	1.6"	0.0	-2.7"
TRAJ: 150 yds. zero	-.8"	1.3"	2.8"	3.5"	3.4"	2.2"	0.0
VELOCITY (fps)	1900	1777	1661	1551	1448	1353	1268
ENERGY (ft.-lbs.)	1002	877	765	667	582	508	446
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.6"	-2.1"	-4.8"	-8.6"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.4"	-5.0"	-8.9"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.8"	-7.4"
TRAJ: 100 yds. zero	-.8"	0.5"	1.2"	1.0"	0.0	-2.1"	-5.4"
TRAJ: 125 yds. zero	-.8"	1.0"	2.0"	2.3"	1.7"	0.0	-2.9"
TRAJ: 150 yds. zero	-.8"	1.4"	3.0"	3.7"	3.6"	2.4"	0.0
VELOCITY (fps)	1850	1730	1616	1508	1409	1318	1236
ENERGY (ft.-lbs.)	950	830	724	631	551	482	424
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.7"	-2.4"	-5.2"	-9.3"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.5"	-5.4"	-9.5"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.5"	-4.1"	-7.9"
TRAJ: 100 yds. zero	-.8"	0.6"	1.3"	1.1"	0.0	-2.2"	-5.7"
TRAJ: 125 yds. zero	-.8"	1.0"	2.2"	2.4"	1.8"	0.0	-3.0"
TRAJ: 150 yds. zero	-.8"	1.5"	3.2"	4.0"	3.8"	2.5"	0.0
VELOCITY (fps)	1800	1682	1571	1466	1370	1283	1206
ENERGY (ft.-lbs.)	899	785	685	597	521	457	404
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.8"	-2.7"	-5.7"	-10.0"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.7"	-5.8"	-10.1"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.6"	-4.3"	-8.4"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.2"	0.0	-2.4"	-6.0"
TRAJ: 125 yds. zero	-.8"	1.1"	2.3"	2.6"	1.9"	0.0	-3.2"
TRAJ: 150 yds. zero	-.8"	1.7"	3.4"	4.2"	4.0"	2.7"	0.0
VELOCITY (fps)	1750	1635	1526	1425	1333	1250	1177
ENERGY (ft.-lbs.)	850	742	646	564	493	433	385
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.0"	-6.2"	-10.9"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-0.9"	-3.0"	-6.2"	-10.8"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.6"	-8.9"
TRAJ: 100 yds. zero	-.8"	0.7"	1.5"	1.3"	0.0	-2.5"	-6.4"
TRAJ: 125 yds. zero	-.8"	1.2"	2.5"	2.8"	2.0"	0.0	-3.4"
TRAJ: 150 yds. zero	-.8"	1.8"	3.6"	4.5"	4.3"	2.8"	0.0
VELOCITY (fps)	1700	1587	1482	1384	1296	1217	1150
ENERGY (ft.-lbs.)	802	699	610	532	466	411	367
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.1"	-3.3"	-6.8"	-11.7"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.2"	-6.6"	-11.5"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.9"	-9.5"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.4"	0.0	-2.7"	-6.8"
TRAJ: 125 yds. zero	-.8"	1.4"	2.7"	3.0"	2.1"	0.0	-3.6"
TRAJ: 150 yds. zero	-.8"	2.0"	3.8"	4.8"	4.5"	3.0"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1650	1540	1438	1345	1260	1187	1124
ENERGY (ft.-lbs.)	756	659	574	502	441	391	351
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-3.7"	-7.4"	-12.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.4"	-7.1"	-12.3"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.3"	-10.1"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.5"	0.0	-2.8"	-7.2"
TRAJ: 125 yds. zero	-.8"	1.5"	2.8"	3.2"	2.3"	0.0	-3.8"
TRAJ: 150 yds. zero	-.8"	2.1"	4.1"	5.1"	4.8"	3.2"	0.0
VELOCITY (fps)	1600	1494	1395	1306	1226	1157	1100
ENERGY (ft.-lbs.)	710	619	540	473	417	372	336
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.5"	-4.0"	-8.0"	-13.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.7"	-7.6"	-13.2"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.6"	-10.7"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.6"	0.0	-3.0"	-7.6"
TRAJ: 125 yds. zero	-.8"	1.6"	3.0"	3.4"	2.4"	0.0	-4.0"
TRAJ: 150 yds. zero	-.8"	2.3"	4.4"	5.4"	5.1"	3.4"	0.0
VELOCITY (fps)	1550	1447	1353	1267	1193	1129	1077
ENERGY (ft.-lbs.)	667	581	508	446	395	354	322
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.7"	-4.4"	-8.8"	-14.8"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.0"	-8.2"	-14.0"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-6.0"	-11.4"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.2"	-8.1"
TRAJ: 125 yds. zero	-.8"	1.8"	3.3"	3.6"	2.6"	0.0	-4.3"
TRAJ: 150 yds. zero	-.8"	2.5"	4.7"	5.7"	5.4"	3.5"	0.0
VELOCITY (fps)	1500	1401	1311	1230	1161	1103	1055
ENERGY (ft.-lbs.)	624	545	477	420	374	338	309
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.9"	-4.9"	-9.5"	-15.9"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.4"	-4.3"	-8.7"	-15.0"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.4"	-6.4"	-12.1"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.8"	0.0	-3.4"	-8.6"
TRAJ: 125 yds. zero	-.8"	1.9"	3.5"	3.8"	2.7"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.6"	5.0"	6.1"	5.7"	3.7"	0.0
VELOCITY (fps)	1450	1355	1270	1195	1131	1078	1035
ENERGY (ft.-lbs.)	583	510	447	396	355	323	297
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.1"	-5.4"	-10.3"	-17.1"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.6"	-9.4"	-16.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.5"	-6.8"	-12.9"
TRAJ: 100 yds. zero	-.8"	1.3"	2.3"	1.9"	0.0	-3.6"	-9.1"
TRAJ: 125 yds. zero	-.8"	2.1"	3.7"	4.1"	2.9"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.9"	5.3"	6.4"	6.0"	3.9"	0.0
VELOCITY (fps)	1400	1310	1230	1160	1103	1055	1015
ENERGY (ft.-lbs.)	544	476	420	374	337	309	286
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.4"	-5.9"	-11.2"	-18.4"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-5.0"	-10.0"	-17.0"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.7"	-7.2"	-13.7"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.0"	0.0	-3.8"	-9.6"
TRAJ: 125 yds. zero	-.8"	2.2"	4.0"	4.3"	3.1"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.1"	5.7"	6.8"	6.4"	4.2"	0.0
VELOCITY (fps)	1350	1265	1191	1128	1076	1032	996
ENERGY (ft.-lbs.)	506	444	393	353	321	296	275
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.6"	-6.4"	-12.1"	-19.8"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.3"	-10.7"	-18.1"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.9"	-7.7"	-14.5"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-4.0"	-10.1"
TRAJ: 125 yds. zero	-.8"	2.4"	4.3"	4.6"	3.2"	0.0	-5.3"
TRAJ: 150 yds. zero	-.8"	3.3"	6.0"	7.2"	6.7"	4.4"	0.0
VELOCITY (fps)	1300	1221	1153	1097	1050	1011	977
ENERGY (ft.-lbs.)	469	414	369	334	306	284	265
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-2.9"	-7.0"	-13.1"	-21.2"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.0"	-5.7"	-11.4"	-19.3"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.1"	-8.2"	-15.3"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.3"	0.0	-4.3"	-10.7"
TRAJ: 125 yds. zero	-.8"	2.6"	4.6"	4.9"	3.4"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.5"	6.4"	7.7"	7.1"	4.6"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1250	1178	1117	1067	1025	989	958
ENERGY (ft.-lbs.)	434	385	346	316	292	272	255
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.3"	-7.7"	-14.1"	-22.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.1"	-12.2"	-20.5"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.3"	-8.7"	-16.2"
TRAJ: 100 yds. zero	-.8"	1.9"	3.1"	2.5"	0.0	-4.5"	-11.3"
TRAJ: 125 yds. zero	-.8"	2.8"	4.9"	5.2"	3.6"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	3.8"	6.8"	8.1"	7.5"	4.9"	0.0
VELOCITY (fps)	1200	1136	1082	1038	1000	968	939
ENERGY (ft.-lbs.)	400	358	325	299	278	260	245
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.6"	-8.4"	-15.3"	-24.4"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.3"	-6.6"	-13.1"	-21.8"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.5"	-9.2"	-17.2"
TRAJ: 100 yds. zero	-.8"	2.1"	3.3"	2.7"	0.0	-4.8"	-11.9"
TRAJ: 125 yds. zero	-.8"	3.1"	5.2"	5.5"	3.8"	0.0	-6.1"
TRAJ: 150 yds. zero	-.8"	4.1"	7.3"	8.6"	7.9"	5.1"	0.0
VELOCITY (fps)	1150	1094	1048	1009	975	946	919
ENERGY (ft.-lbs.)	367	332	305	282	264	248	234
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-4.0"	-9.1"	-16.5"	-26.3"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.1"	-14.0"	-23.2"
TRAJ: 75 yds. zero	-.8"	1.3"	1.7"	0.0	-3.8"	-9.8"	-18.3"
TRAJ: 100 yds. zero	-.8"	2.3"	3.5"	2.8"	0.0	-5.1"	-12.6"
TRAJ: 125 yds. zero	-.8"	3.3"	5.6"	5.9"	4.1"	0.0	-6.5"
TRAJ: 150 yds. zero	-.8"	4.4"	7.7"	9.1"	8.4"	5.4"	0.0
VELOCITY (fps)	1100	1053	1013	979	949	922	897
ENERGY (ft.-lbs.)	336	308	285	266	250	236	223
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.4"	-10.0"	-17.9"	-28.4"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.6"	-15.0"	-24.9"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.1"	-10.5"	-19.5"
TRAJ: 100 yds. zero	-.8"	2.5"	3.8"	3.0"	0.0	-5.4"	-13.4"
TRAJ: 125 yds. zero	-.8"	3.6"	6.0"	6.3"	4.4"	0.0	-6.9"
TRAJ: 150 yds. zero	-.8"	4.7"	8.3"	9.7"	8.9"	5.7"	0.0
VELOCITY (fps)	1050	1011	977	947	921	896	873
ENERGY (ft.-lbs.)	306	284	265	249	235	223	212
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.9"	-10.9"	-19.5"	-30.8"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-2.9"	-8.3"	-16.2"	-26.8"
TRAJ: 75 yds. zero	-.8"	1.6"	2.0"	0.0	-4.4"	-11.3"	-20.9"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.3"	0.0	-5.8"	-14.4"
TRAJ: 125 yds. zero	-.8"	3.9"	6.5"	6.8"	4.7"	0.0	-7.4"
TRAJ: 150 yds. zero	-.8"	5.1"	8.9"	10.5"	9.6"	6.1"	0.0
VELOCITY (fps)	1000	968	939	913	889	866	845
ENERGY (ft.-lbs.)	278	260	245	231	219	208	198
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.5"	-12.1"	-21.4"	-33.6"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-9.0"	-17.6"	-29.1"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.7"	-12.2"	-22.6"
TRAJ: 100 yds. zero	-.8"	3.0"	4.5"	3.6"	0.0	-6.3"	-15.5"
TRAJ: 125 yds. zero	-.8"	4.3"	7.0"	7.3"	5.0"	0.0	-7.9"
TRAJ: 150 yds. zero	-.8"	5.6"	9.7"	11.3"	10.3"	6.6"	0.0
VELOCITY (fps)	950	923	898	875	854	833	814
ENERGY (ft.-lbs.)	250	236	224	213	202	193	184
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.2"	-13.5"	-23.7"	-37.1"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.6"	-10.0"	-19.3"	-31.8"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.2"	-13.4"	-24.7"
TRAJ: 100 yds. zero	-.8"	3.4"	5.0"	3.9"	0.0	-6.9"	-16.9"
TRAJ: 125 yds. zero	-.8"	4.7"	7.7"	8.0"	5.5"	0.0	-8.6"
TRAJ: 150 yds. zero	-.8"	6.2"	10.6"	12.4"	11.3"	7.2"	0.0
VELOCITY (fps)	900	877	855	835	815	797	779
ENERGY (ft.-lbs.)	225	213	203	193	185	176	168
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.0"	-15.1"	-26.5"	-41.3"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.1"	-21.4"	-35.2"
TRAJ: 75 yds. zero	-.8"	2.3"	2.7"	0.0	-5.8"	-14.8"	-27.2"
TRAJ: 100 yds. zero	-.8"	3.8"	5.5"	4.3"	0.0	-7.6"	-18.6"
TRAJ: 125 yds. zero	-.8"	5.3"	8.6"	8.9"	6.1"	0.0	-9.5"
TRAJ: 150 yds. zero	-.8"	6.9"	11.7"	13.6"	12.4"	7.9"	0.0

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RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	850	830	811	792	775	758	741
ENERGY (ft.-lbs.)	201	191	182	174	167	159	153
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.0"	-17.1"	-29.9"	-46.4"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.5"	-12.4"	-24.0"	-39.3"
TRAJ: 75 yds. zero	-.8"	2.7"	3.0"	0.0	-6.4"	-16.5"	-30.3"
TRAJ: 100 yds. zero	-.8"	4.3"	6.2"	4.8"	0.0	-8.4"	-20.7"
TRAJ: 125 yds. zero	-.8"	6.0"	9.6"	9.9"	6.8"	0.0	-10.5"
TRAJ: 150 yds. zero	-.8"	7.7"	13.1"	15.2"	13.8"	8.8"	0.0
VELOCITY (fps)	800	782	765	748	732	717	701
ENERGY (ft.-lbs.)	178	170	162	155	149	143	137
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.2"	-19.5"	-33.9"	-52.5"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.1"	-14.0"	-27.1"	-44.3"
TRAJ: 75 yds. zero	-.8"	3.1"	3.4"	0.0	-7.3"	-18.6"	-34.1"
TRAJ: 100 yds. zero	-.8"	4.9"	7.0"	5.5"	0.0	-9.5"	-23.2"
TRAJ: 125 yds. zero	-.8"	6.8"	10.8"	11.2"	7.6"	0.0	-11.8"
TRAJ: 150 yds. zero	-.8"	8.8"	14.8"	17.1"	15.5"	9.8"	0.0

38 CALIBER (.357" Dia.) 140 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .157 BALLISTIC COEFFICIENT: .169

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2100	1985	1874	1768	1666	1569	1477
ENERGY (ft.-lbs.)	1371	1225	1092	971	862	765	678
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.1"	-1.2"	-3.0"	-5.8"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.7"	-3.7"	-6.5"
TRAJ: 75 yds. zero	-.8"	0.0	0.3"	0.0	-1.0"	-2.8"	-5.5"
TRAJ: 100 yds. zero	-.8"	0.3"	0.8"	0.8"	0.0	-1.6"	-4.0"
TRAJ: 125 yds. zero	-.8"	0.6"	1.5"	1.7"	1.2"	0.0	-2.1"
TRAJ: 150 yds. zero	-.8"	1.0"	2.2"	2.8"	2.7"	1.8"	0.0
VELOCITY (fps)	2050	1937	1828	1723	1623	1528	1439
ENERGY (ft.-lbs.)	1306	1166	1038	923	819	726	644
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.2"	-1.4"	-3.4"	-6.3"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.8"	-3.9"	-6.9"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.1"	-3.0"	-5.9"
TRAJ: 100 yds. zero	-.8"	0.3"	0.9"	0.8"	0.0	-1.6"	-4.2"
TRAJ: 125 yds. zero	-.8"	0.7"	1.6"	1.8"	1.3"	0.0	-2.2"
TRAJ: 150 yds. zero	-.8"	1.0"	2.3"	2.9"	2.8"	1.9"	0.0
VELOCITY (fps)	2000	1889	1781	1679	1581	1489	1402
ENERGY (ft.-lbs.)	1243	1109	986	876	777	689	611
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.6"	-3.7"	-6.8"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.0"	-4.2"	-7.4"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.2"	-6.2"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.7"	-4.5"
TRAJ: 125 yds. zero	-.8"	0.7"	1.7"	1.9"	1.4"	0.0	-2.4"
TRAJ: 150 yds. zero	-.8"	1.1"	2.5"	3.1"	3.0"	2.0"	0.0
VELOCITY (fps)	1950	1840	1735	1635	1539	1449	1366
ENERGY (ft.-lbs.)	1182	1053	936	830	736	653	580
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.4"	-1.8"	-4.1"	-7.4"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.1"	-4.5"	-7.9"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.4"	-6.6"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.8"	-4.7"
TRAJ: 125 yds. zero	-.8"	0.8"	1.8"	2.0"	1.5"	0.0	-2.5"
TRAJ: 150 yds. zero	-.8"	1.2"	2.6"	3.3"	3.2"	2.1"	0.0
VELOCITY (fps)	1900	1792	1689	1591	1498	1411	1330
ENERGY (ft.-lbs.)	1122	998	887	787	697	619	550
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.5"	-2.0"	-4.5"	-8.0"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.3"	-4.8"	-8.4"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.3"	-3.6"	-7.0"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	1.0"	0.0	-2.0"	-5.0"
TRAJ: 125 yds. zero	-.8"	0.9"	1.9"	2.2"	1.6"	0.0	-2.7"
TRAJ: 150 yds. zero	-.8"	1.3"	2.8"	3.5"	3.3"	2.2"	0.0
VELOCITY (fps)	1850	1744	1643	1547	1457	1373	1296
ENERGY (ft.-lbs.)	1064	946	839	744	660	586	522
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.6"	-2.3"	-4.9"	-8.7"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.4"	-5.1"	-9.0"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.9"	-7.5"
TRAJ: 100 yds. zero	-.8"	0.6"	1.2"	1.1"	0.0	-2.1"	-5.3"
TRAJ: 125 yds. zero	-.8"	1.0"	2.1"	2.3"	1.7"	0.0	-2.8"
TRAJ: 150 yds. zero	-.8"	1.5"	3.0"	3.7"	3.6"	2.4"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1800	1696	1598	1504	1417	1336	1262
ENERGY (ft.-lbs.)	1007	894	793	703	624	555	495
TRAJ: 25 yds. zero	-.8"	0.0"	0.0"	-0.8"	-2.5"	-5.4"	-9.4"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0"	-0.8"	-2.6"	-5.5"	-9.6"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0"	-1.5"	-4.1"	-7.9"
TRAJ: 100 yds. zero	-.8"	0.6"	1.3"	1.1"	0.0"	-2.2"	-5.7"
TRAJ: 125 yds. zero	-.8"	1.1"	2.2"	2.5"	1.8"	0.0"	-3.0"
TRAJ: 150 yds. zero	-.8"	1.6"	3.2"	4.0"	3.8"	2.5"	0.0"
VELOCITY (fps)	1750	1649	1552	1462	1377	1300	1230
ENERGY (ft.-lbs.)	952	845	749	664	590	525	470
TRAJ: 25 yds. zero	-.8"	0.0"	0.0"	-0.9"	-2.8"	-5.9"	-10.2"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0"	-0.9"	-2.8"	-5.9"	-10.2"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0"	-1.6"	-4.4"	-8.4"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.2"	0.0"	-2.4"	-6.0"
TRAJ: 125 yds. zero	-.8"	1.2"	2.4"	2.6"	1.9"	0.0"	-3.2"
TRAJ: 150 yds. zero	-.8"	1.7"	3.4"	4.2"	4.0"	2.6"	0.0"
VELOCITY (fps)	1700	1601	1508	1420	1339	1265	1199
ENERGY (ft.-lbs.)	898	797	706	627	557	497	447
TRAJ: 25 yds. zero	-.8"	0.0"	-0.0"	-1.1"	-3.1"	-6.4"	-11.1"
TRAJ: 50 yds. zero	-.8"	0.0"	0.0"	-1.0"	-3.0"	-6.3"	-10.9"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0"	-1.7"	-4.7"	-9.0"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0"	-2.5"	-6.4"
TRAJ: 125 yds. zero	-.8"	1.3"	2.5"	2.8"	2.0"	0.0"	-3.4"
TRAJ: 150 yds. zero	-.8"	1.8"	3.6"	4.5"	4.3"	2.8"	0.0"
VELOCITY (fps)	1650	1554	1463	1378	1301	1231	1170
ENERGY (ft.-lbs.)	846	750	665	591	526	471	425
TRAJ: 25 yds. zero	-.8"	0.0"	-0.1"	-1.2"	-3.5"	-7.0"	-12.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0"	-1.1"	-3.3"	-6.8"	-11.7"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0"	-1.9"	-5.0"	-9.6"
TRAJ: 100 yds. zero	-.8"	0.9"	1.6"	1.4"	0.0"	-2.7"	-6.8"
TRAJ: 125 yds. zero	-.8"	1.4"	2.7"	3.0"	2.1"	0.0"	-3.6"
TRAJ: 150 yds. zero	-.8"	2.0"	3.9"	4.8"	4.5"	3.0"	0.0"
VELOCITY (fps)	1600	1506	1419	1338	1264	1198	1142
ENERGY (ft.-lbs.)	796	705	626	556	497	446	405
TRAJ: 25 yds. zero	-.8"	0.0"	-0.2"	-1.4"	-3.8"	-7.7"	-13.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0"	-1.2"	-3.5"	-7.3"	-12.5"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0"	-2.0"	-5.3"	-10.2"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0"	-2.9"	-7.2"
TRAJ: 125 yds. zero	-.8"	1.5"	2.9"	3.2"	2.3"	0.0"	-3.8"
TRAJ: 150 yds. zero	-.8"	2.2"	4.2"	5.1"	4.8"	3.2"	0.0"
VELOCITY (fps)	1550	1460	1375	1298	1228	1167	1115
ENERGY (ft.-lbs.)	747	662	588	524	469	424	386
TRAJ: 25 yds. zero	-.8"	0.0"	-0.2"	-1.6"	-4.2"	-8.3"	-14.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0"	-1.3"	-3.8"	-7.8"	-13.4"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0"	-2.1"	-5.7"	-10.9"
TRAJ: 100 yds. zero	-.8"	1.1"	1.9"	1.6"	0.0"	-3.0"	-7.7"
TRAJ: 125 yds. zero	-.8"	1.7"	3.1"	3.4"	2.4"	0.0"	-4.0"
TRAJ: 150 yds. zero	-.8"	2.3"	4.5"	5.4"	5.1"	3.4"	0.0"
VELOCITY (fps)	1500	1413	1332	1259	1194	1138	1090
ENERGY (ft.-lbs.)	699	620	552	493	443	402	369
TRAJ: 25 yds. zero	-.8"	0.0"	-0.3"	-1.8"	-4.7"	-9.1"	-15.2"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0"	-1.4"	-4.1"	-8.4"	-14.3"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0"	-2.3"	-6.1"	-11.6"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.7"	0.0"	-3.2"	-8.1"
TRAJ: 125 yds. zero	-.8"	1.8"	3.3"	3.7"	2.6"	0.0"	-4.3"
TRAJ: 150 yds. zero	-.8"	2.5"	4.8"	5.8"	5.4"	3.6"	0.0"
VELOCITY (fps)	1450	1366	1290	1221	1161	1110	1067
ENERGY (ft.-lbs.)	653	580	517	464	419	383	354
TRAJ: 25 yds. zero	-.8"	0.0"	-0.4"	-2.0"	-5.2"	-9.9"	-16.4"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0"	-1.5"	-4.4"	-9.0"	-15.3"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0"	-2.4"	-6.5"	-12.3"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0"	-3.4"	-8.6"
TRAJ: 125 yds. zero	-.8"	2.0"	3.6"	3.9"	2.8"	0.0"	-4.5"
TRAJ: 150 yds. zero	-.8"	2.7"	5.1"	6.2"	5.8"	3.8"	0.0"

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1400	1321	1249	1185	1130	1083	1044
ENERGY (ft.-lbs.)	609	542	485	436	397	365	339
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.3"	-5.7"	-10.8"	-17.7"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.8"	-9.6"	-16.3"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.6"	-6.9"	-13.1"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	2.0"	0.0	-3.7"	-9.2"
TRAJ: 125 yds. zero	-.8"	2.2"	3.9"	4.2"	2.9"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	2.9"	5.4"	6.6"	6.1"	4.0"	0.0
VELOCITY (fps)	1350	1275	1208	1150	1100	1058	1023
ENERGY (ft.-lbs.)	566	505	454	411	376	348	325
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.6"	-6.2"	-11.7"	-19.1"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.2"	-10.3"	-17.4"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.8"	-7.4"	-13.9"
TRAJ: 100 yds. zero	-.8"	1.6"	2.6"	2.1"	0.0	-3.9"	-9.7"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.4"	3.1"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.2"	5.8"	7.0"	6.5"	4.2"	0.0
VELOCITY (fps)	1300	1230	1169	1116	1072	1034	1002
ENERGY (ft.-lbs.)	525	470	425	387	357	333	312
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.9"	-6.8"	-12.7"	-20.5"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.6"	-11.1"	-18.6"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.0"	-7.9"	-14.8"
TRAJ: 100 yds. zero	-.8"	1.7"	2.8"	2.3"	0.0	-4.1"	-10.3"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.3"	0.0	-5.3"
TRAJ: 150 yds. zero	-.8"	3.4"	6.2"	7.4"	6.9"	4.4"	0.0
VELOCITY (fps)	1250	1186	1131	1084	1045	1011	981
ENERGY (ft.-lbs.)	486	437	398	365	339	318	299
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.2"	-7.5"	-13.7"	-22.1"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.0"	-11.9"	-19.9"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.2"	-8.4"	-15.7"
TRAJ: 100 yds. zero	-.8"	1.9"	3.0"	2.4"	0.0	-4.4"	-10.9"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.1"	3.5"	0.0	-5.6"
TRAJ: 150 yds. zero	-.8"	3.7"	6.6"	7.9"	7.3"	4.7"	0.0
VELOCITY (fps)	1200	1143	1094	1053	1018	988	960
ENERGY (ft.-lbs.)	448	406	372	345	322	303	287
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.5"	-8.2"	-14.9"	-23.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.7"	-21.2"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.4"	-9.0"	-16.7"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.7"	-11.5"
TRAJ: 125 yds. zero	-.8"	3.0"	5.1"	5.4"	3.7"	0.0	-5.9"
TRAJ: 150 yds. zero	-.8"	4.0"	7.1"	8.4"	7.7"	4.9"	0.0
VELOCITY (fps)	1150	1100	1058	1023	992	964	939
ENERGY (ft.-lbs.)	411	376	348	325	306	289	274
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.9"	-16.1"	-25.6"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.9"	-13.6"	-22.7"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.7"	-9.6"	-17.8"
TRAJ: 100 yds. zero	-.8"	2.2"	3.5"	2.8"	0.0	-5.0"	-12.3"
TRAJ: 125 yds. zero	-.8"	3.2"	5.5"	5.8"	4.0"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.3"	7.6"	8.9"	8.2"	5.2"	0.0
VELOCITY (fps)	1100	1058	1022	991	964	939	916
ENERGY (ft.-lbs.)	376	348	325	305	289	274	261
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.4"	-9.8"	-17.5"	-27.7"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.5"	-14.7"	-24.3"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.0"	-10.3"	-19.0"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	3.0"	0.0	-5.3"	-13.1"
TRAJ: 125 yds. zero	-.8"	3.5"	5.9"	6.2"	4.2"	0.0	-6.7"
TRAJ: 150 yds. zero	-.8"	4.6"	8.1"	9.5"	8.7"	5.6"	0.0
VELOCITY (fps)	1050	1015	985	958	934	911	890
ENERGY (ft.-lbs.)	343	320	302	285	271	258	246
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.7"	-19.1"	-30.1"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-2.9"	-8.1"	-15.9"	-26.2"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.3"	-11.1"	-20.4"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.2"	0.0	-5.7"	-14.0"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.6"	4.6"	0.0	-7.2"
TRAJ: 150 yds. zero	-.8"	5.0"	8.7"	10.2"	9.3"	6.0"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	971	946	922	900	880	861
ENERGY (ft.-lbs.)	311	293	278	264	252	241	230
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.9"	-21.0"	-33.0"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-8.9"	-17.3"	-28.5"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.7"	-12.0"	-22.1"
TRAJ: 100 yds. zero	-.8"	3.0"	4.4"	3.5"	0.0	-6.2"	-15.1"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.2"	4.9"	0.0	-7.7"
TRAJ: 150 yds. zero	-.8"	5.5"	9.5"	11.1"	10.1"	6.4"	0.0
VELOCITY (fps)	950	926	904	884	864	846	828
ENERGY (ft.-lbs.)	281	267	254	243	232	222	213
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.3"	-23.4"	-36.5"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.8"	-19.0"	-31.3"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.1"	-13.2"	-24.2"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.8"	0.0	-6.8"	-16.5"
TRAJ: 125 yds. zero	-.8"	4.7"	7.6"	7.9"	5.4"	0.0	-8.4"
TRAJ: 150 yds. zero	-.8"	6.1"	10.4"	12.1"	11.0"	7.0"	0.0
VELOCITY (fps)	900	880	860	842	825	808	792
ENERGY (ft.-lbs.)	252	241	230	221	212	203	195
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.9"	-26.1"	-40.6"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.9"	-21.1"	-34.6"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.7"	-14.6"	-26.7"
TRAJ: 100 yds. zero	-.8"	3.7"	5.5"	4.3"	0.0	-7.4"	-18.2"
TRAJ: 125 yds. zero	-.8"	5.2"	8.4"	8.7"	6.0"	0.0	-9.3"
TRAJ: 150 yds. zero	-.8"	6.8"	11.5"	13.4"	12.1"	7.7"	0.0
VELOCITY (fps)	850	832	815	799	783	768	754
ENERGY (ft.-lbs.)	225	215	207	198	191	183	176
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.9"	-29.5"	-45.7"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.3"	-23.6"	-38.7"
TRAJ: 75 yds. zero	-.8"	2.6"	3.0"	0.0	-6.4"	-16.2"	-29.8"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.8"	0.0	-8.3"	-20.3"
TRAJ: 125 yds. zero	-.8"	5.9"	9.5"	9.7"	6.6"	0.0	-10.3"
TRAJ: 150 yds. zero	-.8"	7.6"	12.9"	14.9"	13.5"	8.6"	0.0
VELOCITY (fps)	800	784	769	754	740	726	713
ENERGY (ft.-lbs.)	199	191	184	177	170	164	158
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.1"	-19.3"	-33.5"	-51.8"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.9"	-26.7"	-43.6"
TRAJ: 75 yds. zero	-.8"	3.0"	3.4"	0.0	-7.2"	-18.3"	-33.6"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.4"	0.0	-9.4"	-22.8"
TRAJ: 125 yds. zero	-.8"	6.7"	10.7"	11.0"	7.5"	0.0	-11.6"
TRAJ: 150 yds. zero	-.8"	8.6"	14.5"	16.8"	15.2"	9.7"	0.0

38 CALIBER (.357" Dia.) 158 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .177 BALLISTIC COEFFICIENT: .206

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2000	1908	1819	1734	1651	1571	1496
ENERGY (ft.-lbs.)	1403	1277	1161	1054	956	866	785
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.2"	-1.4"	-3.4"	-6.3"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-1.8"	-3.9"	-6.9"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.1"	-3.0"	-5.8"
TRAJ: 100 yds. zero	-.8"	0.4"	0.9"	0.8"	0.0	-1.6"	-4.1"
TRAJ: 125 yds. zero	-.8"	0.7"	1.6"	1.8"	1.3"	0.0	-2.2"
TRAJ: 150 yds. zero	-.8"	1.0"	2.3"	2.9"	2.7"	1.8"	0.0
VELOCITY (fps)	1950	1860	1772	1688	1607	1530	1456
ENERGY (ft.-lbs.)	1334	1213	1102	1000	906	821	744
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.6"	-3.8"	-6.8"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.0"	-4.2"	-7.3"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.2"	-6.1"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.7"	-4.4"
TRAJ: 125 yds. zero	-.8"	0.8"	1.7"	1.9"	1.4"	0.0	-2.3"
TRAJ: 150 yds. zero	-.8"	1.1"	2.4"	3.1"	2.9"	1.9"	0.0
VELOCITY (fps)	1900	1811	1726	1643	1564	1489	1417
ENERGY (ft.-lbs.)	1266	1151	1045	947	858	777	705
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.5"	-1.9"	-4.1"	-7.4"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.1"	-4.5"	-7.8"
TRAJ: 75 yds. zero	-.8"	0.2"	0.4"	0.0	-1.2"	-3.4"	-6.5"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	0.9"	0.0	-1.8"	-4.6"
TRAJ: 125 yds. zero	-.8"	0.8"	1.8"	2.0"	1.5"	0.0	-2.4"
TRAJ: 150 yds. zero	-.8"	1.2"	2.6"	3.2"	3.1"	2.0"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1850	1763	1679	1598	1521	1448	1379
ENERGY (ft.-lbs.)	1201	1090	989	896	812	736	667
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.6"	-2.1"	-4.5"	-8.0"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.3"	-4.8"	-8.3"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.3"	-3.6"	-6.9"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	1.0"	0.0	-1.9"	-4.9"
TRAJ: 125 yds. zero	-.8"	0.9"	1.9"	2.2"	1.5"	0.0	-2.6"
TRAJ: 150 yds. zero	-.8"	1.3"	2.8"	3.5"	3.3"	2.2"	0.0
VELOCITY (fps)	1800	1715	1633	1554	1479	1408	1342
ENERGY (ft.-lbs.)	1136	1031	935	847	767	696	632
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.7"	-2.3"	-5.0"	-8.7"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.5"	-5.1"	-8.9"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.8"	-7.4"
TRAJ: 100 yds. zero	-.8"	0.6"	1.2"	1.1"	0.0	-2.1"	-5.2"
TRAJ: 125 yds. zero	-.8"	1.0"	2.1"	2.3"	1.6"	0.0	-2.7"
TRAJ: 150 yds. zero	-.8"	1.5"	3.0"	3.7"	3.5"	2.3"	0.0
VELOCITY (fps)	1750	1667	1586	1510	1437	1369	1306
ENERGY (ft.-lbs.)	1074	974	883	800	725	658	598
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.8"	-2.6"	-5.5"	-9.5"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.7"	-5.5"	-9.5"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.5"	-4.1"	-7.8"
TRAJ: 100 yds. zero	-.8"	0.7"	1.3"	1.1"	0.0	-2.2"	-5.5"
TRAJ: 125 yds. zero	-.8"	1.1"	2.2"	2.5"	1.8"	0.0	-2.9"
TRAJ: 150 yds. zero	-.8"	1.6"	3.2"	3.9"	3.7"	2.4"	0.0
VELOCITY (fps)	1700	1618	1541	1466	1396	1331	1270
ENERGY (ft.-lbs.)	1014	919	832	754	684	621	566
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-2.9"	-6.0"	-10.3"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-0.9"	-2.9"	-5.9"	-10.2"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.6"	-4.4"	-8.3"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.2"	0.0	-2.3"	-5.9"
TRAJ: 125 yds. zero	-.8"	1.2"	2.4"	2.6"	1.9"	0.0	-3.1"
TRAJ: 150 yds. zero	-.8"	1.7"	3.4"	4.2"	3.9"	2.6"	0.0
VELOCITY (fps)	1650	1571	1495	1423	1356	1293	1236
ENERGY (ft.-lbs.)	955	865	784	711	645	587	536
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.1"	-3.3"	-6.6"	-11.2"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.1"	-6.4"	-10.9"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.7"	-4.7"	-8.9"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.5"	-6.3"
TRAJ: 125 yds. zero	-.8"	1.3"	2.5"	2.8"	2.0"	0.0	-3.3"
TRAJ: 150 yds. zero	-.8"	1.9"	3.6"	4.5"	4.2"	2.7"	0.0
VELOCITY (fps)	1600	1523	1450	1381	1316	1257	1203
ENERGY (ft.-lbs.)	898	813	737	669	608	554	508
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-3.6"	-7.2"	-12.1"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.3"	-6.8"	-11.7"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.0"	-9.5"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.4"	0.0	-2.7"	-6.7"
TRAJ: 125 yds. zero	-.8"	1.4"	2.7"	3.0"	2.1"	0.0	-3.5"
TRAJ: 150 yds. zero	-.8"	2.0"	3.9"	4.8"	4.5"	2.9"	0.0
VELOCITY (fps)	1550	1475	1405	1339	1278	1222	1172
ENERGY (ft.-lbs.)	843	764	692	629	573	524	482
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.5"	-4.0"	-7.9"	-13.1"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.6"	-7.4"	-12.6"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.0"	-5.4"	-10.2"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0	-2.8"	-7.1"
TRAJ: 125 yds. zero	-.8"	1.6"	2.9"	3.2"	2.3"	0.0	-3.7"
TRAJ: 150 yds. zero	-.8"	2.2"	4.2"	5.1"	4.8"	3.1"	0.0
VELOCITY (fps)	1500	1428	1360	1298	1240	1188	1142
ENERGY (ft.-lbs.)	789	715	649	591	539	495	457
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.7"	-4.4"	-8.6"	-14.3"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-3.9"	-7.9"	-13.5"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-5.7"	-10.8"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.6"	0.0	-3.0"	-7.6"
TRAJ: 125 yds. zero	-.8"	1.7"	3.2"	3.4"	2.4"	0.0	-4.0"
TRAJ: 150 yds. zero	-.8"	2.4"	4.5"	5.4"	5.1"	3.3"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1450	1381	1317	1257	1204	1156	1114
ENERGY (ft.-lbs.)	737	669	608	555	508	468	435
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.9"	-4.9"	-9.4"	-15.5"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.4"	-4.2"	-8.5"	-14.4"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.3"	-6.1"	-11.6"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.7"	0.0	-3.2"	-8.1"
TRAJ: 125 yds. zero	-.8"	1.9"	3.4"	3.7"	2.6"	0.0	-4.2"
TRAJ: 150 yds. zero	-.8"	2.6"	4.8"	5.8"	5.4"	3.5"	0.0
VELOCITY (fps)	1400	1334	1274	1218	1169	1125	1087
ENERGY (ft.-lbs.)	688	625	569	521	479	444	414
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.4"	-10.2"	-16.7"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.6"	-9.2"	-15.5"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.5"	-6.6"	-12.4"
TRAJ: 100 yds. zero	-.8"	1.4"	2.3"	1.9"	0.0	-3.5"	-8.6"
TRAJ: 125 yds. zero	-.8"	2.0"	3.7"	4.0"	2.8"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.8"	5.2"	6.2"	5.8"	3.7"	0.0
VELOCITY (fps)	1350	1288	1231	1180	1135	1096	1061
ENERGY (ft.-lbs.)	639	582	532	489	452	421	395
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.4"	-6.0"	-11.1"	-18.1"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.7"	-4.9"	-9.9"	-16.6"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.7"	-7.1"	-13.2"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.0"	0.0	-3.7"	-9.2"
TRAJ: 125 yds. zero	-.8"	2.2"	3.9"	4.2"	3.0"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	3.0"	5.5"	6.6"	6.1"	4.0"	0.0
VELOCITY (fps)	1300	1242	1190	1144	1103	1068	1037
ENERGY (ft.-lbs.)	593	541	497	459	427	400	377
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.7"	-6.5"	-12.1"	-19.6"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.3"	-10.6"	-17.8"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.9"	-7.5"	-14.1"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-3.9"	-9.8"
TRAJ: 125 yds. zero	-.8"	2.4"	4.2"	4.5"	3.2"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	3.3"	5.9"	7.1"	6.5"	4.2"	0.0
VELOCITY (fps)	1250	1197	1150	1109	1073	1041	1013
ENERGY (ft.-lbs.)	548	503	464	431	404	380	360
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.2"	-13.2"	-21.2"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.8"	-11.4"	-19.1"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.1"	-8.1"	-15.1"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.3"	0.0	-4.2"	-10.4"
TRAJ: 125 yds. zero	-.8"	2.6"	4.6"	4.8"	3.4"	0.0	-5.4"
TRAJ: 150 yds. zero	-.8"	3.5"	6.4"	7.5"	6.9"	4.5"	0.0
VELOCITY (fps)	1200	1153	1111	1075	1043	1015	990
ENERGY (ft.-lbs.)	505	466	433	405	382	361	344
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-7.9"	-14.4"	-22.9"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.2"	-12.3"	-20.4"
TRAJ: 75 yds. zero	-.8"	1.1"	1.5"	0.0	-3.3"	-8.6"	-16.1"
TRAJ: 100 yds. zero	-.8"	2.0"	3.1"	2.5"	0.0	-4.5"	-11.1"
TRAJ: 125 yds. zero	-.8"	2.9"	4.9"	5.2"	3.6"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.8"	6.8"	8.0"	7.4"	4.7"	0.0
VELOCITY (fps)	1150	1109	1073	1041	1014	989	966
ENERGY (ft.-lbs.)	464	431	404	380	360	343	327
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.8"	-8.7"	-15.6"	-24.8"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.7"	-13.2"	-21.9"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.3"	-17.2"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.8"	-11.8"
TRAJ: 125 yds. zero	-.8"	3.1"	5.3"	5.6"	3.8"	0.0	-6.0"
TRAJ: 150 yds. zero	-.8"	4.1"	7.3"	8.6"	7.9"	5.0"	0.0
VELOCITY (fps)	1100	1065	1035	1008	983	961	940
ENERGY (ft.-lbs.)	424	398	376	356	339	324	310
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.5"	-17.0"	-26.9"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.3"	-14.3"	-23.6"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.0"	-18.4"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.1"	-12.6"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.0"	4.1"	0.0	-6.4"
TRAJ: 150 yds. zero	-.8"	4.5"	7.9"	9.2"	8.4"	5.4"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1050	1021	996	972	951	931	913
ENERGY (ft.-lbs.)	387	366	348	332	317	304	292
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.5"	-18.7"	-29.3"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-8.0"	-15.5"	-25.5"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.8"	-19.8"
TRAJ: 100 yds. zero	-.8"	2.6"	4.0"	3.1"	0.0	-5.5"	-13.6"
TRAJ: 125 yds. zero	-.8"	3.7"	6.2"	6.5"	4.4"	0.0	-6.9"
TRAJ: 150 yds. zero	-.8"	4.9"	8.5"	9.9"	9.0"	5.8"	0.0
VELOCITY (fps)	1000	976	955	935	916	898	882
ENERGY (ft.-lbs.)	351	334	320	306	294	283	273
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.3"	-11.7"	-20.6"	-32.2"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.7"	-16.9"	-27.8"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.7"	-21.5"
TRAJ: 100 yds. zero	-.8"	2.9"	4.4"	3.4"	0.0	-6.0"	-14.7"
TRAJ: 125 yds. zero	-.8"	4.1"	6.8"	7.0"	4.8"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.4"	9.3"	10.8"	9.8"	6.2"	0.0
VELOCITY (fps)	950	930	912	894	878	862	847
ENERGY (ft.-lbs.)	317	304	292	281	270	261	252
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.0"	-13.1"	-22.9"	-35.7"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.6"	-18.6"	-30.6"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.0"	-12.9"	-23.6"
TRAJ: 100 yds. zero	-.8"	3.3"	4.8"	3.8"	0.0	-6.6"	-16.1"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.7"	5.3"	0.0	-8.2"
TRAJ: 150 yds. zero	-.8"	5.9"	10.2"	11.8"	10.7"	6.8"	0.0
VELOCITY (fps)	900	883	867	852	837	823	810
ENERGY (ft.-lbs.)	284	274	264	255	246	238	230
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.7"	-25.7"	-39.8"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.8"	-20.7"	-33.9"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.3"	-26.1"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.3"	-17.7"
TRAJ: 125 yds. zero	-.8"	5.1"	8.3"	8.6"	5.8"	0.0	-9.0"
TRAJ: 150 yds. zero	-.8"	6.6"	11.3"	13.1"	11.8"	7.5"	0.0
VELOCITY (fps)	850	835	821	808	795	782	769
ENERGY (ft.-lbs.)	253	245	237	229	221	214	208
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.8"	-16.7"	-29.0"	-44.8"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.1"	-23.2"	-37.9"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.2"	-15.9"	-29.1"
TRAJ: 100 yds. zero	-.8"	4.2"	6.0"	4.7"	0.0	-8.1"	-19.8"
TRAJ: 125 yds. zero	-.8"	5.8"	9.3"	9.6"	6.5"	0.0	-10.0"
TRAJ: 150 yds. zero	-.8"	7.5"	12.6"	14.6"	13.2"	8.4"	0.0
VELOCITY (fps)	800	787	775	762	750	739	727
ENERGY (ft.-lbs.)	224	217	210	204	197	191	186
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.0"	-19.1"	-33.0"	-50.9"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.7"	-26.2"	-42.8"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.0"	-18.0"	-32.8"
TRAJ: 100 yds. zero	-.8"	4.8"	6.8"	5.3"	0.0	-9.2"	-22.3"
TRAJ: 125 yds. zero	-.8"	6.6"	10.5"	10.8"	7.3"	0.0	-11.3"
TRAJ: 150 yds. zero	-.8"	8.5"	14.3"	16.4"	14.9"	9.4"	0.0
VELOCITY (fps)	750	738	727	716	705	694	684
ENERGY (ft.-lbs.)	197	191	185	180	174	169	164
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.5"	-22.0"	-37.9"	-58.3"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.6"	-29.9"	-48.8"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.0"	-20.4"	-37.4"
TRAJ: 100 yds. zero	-.8"	5.5"	7.8"	6.0"	0.0	-10.4"	-25.3"
TRAJ: 125 yds. zero	-.8"	7.6"	12.0"	12.3"	8.3"	0.0	-12.8"
TRAJ: 150 yds. zero	-.8"	9.7"	16.3"	18.7"	16.9"	10.7"	0.0
VELOCITY (fps)	700	689	679	669	659	649	639
ENERGY (ft.-lbs.)	172	167	162	157	152	148	143
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.2"	-25.6"	-43.9"	-67.4"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.6"	-18.0"	-34.5"	-56.1"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.3"	-23.5"	-42.9"
TRAJ: 100 yds. zero	-.8"	6.4"	9.0"	6.9"	0.0	-11.9"	-29.0"
TRAJ: 125 yds. zero	-.8"	8.8"	13.8"	14.1"	9.5"	0.0	-14.7"
TRAJ: 150 yds. zero	-.8"	11.2"	18.7"	21.5"	19.4"	12.3"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	650	640	631	621	612	603	594
ENERGY (ft.-lbs.)	148	144	140	135	131	127	124
TRAJ: 25 yds. zero	-.8"	0.0	-4.5"	-14.4"	-30.0"	-51.5"	-78.8"
TRAJ: 50 yds. zero	-.8"	2.2"	0.0	-7.7"	-21.1"	-40.2"	-65.4"
TRAJ: 75 yds. zero	-.8"	4.8"	5.1"	0.0	-10.8"	-27.4"	-49.9"
TRAJ: 100 yds. zero	-.8"	7.5"	10.5"	8.1"	0.0	-13.9"	-33.8"
TRAJ: 125 yds. zero	-.8"	10.3"	16.1"	16.4"	11.1"	0.0	-17.1"
TRAJ: 150 yds. zero	-.8"	13.1"	21.8"	25.0"	22.5"	14.2"	0.0
VELOCITY (fps)	600	591	582	573	565	556	548
ENERGY (ft.-lbs.)	126	123	119	115	112	109	105
TRAJ: 25 yds. zero	-.8"	0.0	-5.4"	-17.3"	-35.7"	-60.9"	-93.2"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.1"	-24.9"	-47.4"	-76.9"
TRAJ: 75 yds. zero	-.8"	5.8"	6.1"	0.0	-12.7"	-32.2"	-58.7"
TRAJ: 100 yds. zero	-.8"	8.9"	12.4"	9.5"	0.0	-16.3"	-39.6"
TRAJ: 125 yds. zero	-.8"	12.2"	19.0"	19.3"	13.1"	0.0	-20.0"
TRAJ: 150 yds. zero	-.8"	15.5"	25.6"	29.3"	26.4"	16.7"	0.0

38 CALIBER (.357" Dia.) 158 GRAIN XTP FLAT POINT
SECTIONAL DENSITY: .177 BALLISTIC COEFFICIENT: .199

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2000	1905	1813	1725	1639	1558	1480
ENERGY (ft.-lbs.)	1403	1273	1153	1043	943	851	768
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.4"	-3.4"	-6.3"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-1.9"	-4.0"	-6.9"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.1"	-3.0"	-5.8"
TRAJ: 100 yds. zero	-.8"	0.4"	0.9"	0.8"	0.0	-1.6"	-4.2"
TRAJ: 125 yds. zero	-.8"	0.7"	1.6"	1.8"	1.3"	0.0	-2.2"
TRAJ: 150 yds. zero	-.8"	1.1"	2.3"	2.9"	2.8"	1.8"	0.0
VELOCITY (fps)	1950	1857	1766	1679	1596	1516	1441
ENERGY (ft.-lbs.)	1334	1209	1095	989	894	807	728
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.4"	-1.7"	-3.8"	-6.9"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.0"	-4.2"	-7.4"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.2"	-6.2"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.7"	-4.4"
TRAJ: 125 yds. zero	-.8"	0.8"	1.7"	1.9"	1.4"	0.0	-2.3"
TRAJ: 150 yds. zero	-.8"	1.2"	2.5"	3.1"	2.9"	1.9"	0.0
VELOCITY (fps)	1900	1808	1720	1635	1553	1476	1403
ENERGY (ft.-lbs.)	1266	1147	1037	937	846	764	690
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.5"	-1.9"	-4.2"	-7.5"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.1"	-4.5"	-7.9"
TRAJ: 75 yds. zero	-.8"	0.2"	0.4"	0.0	-1.3"	-3.4"	-6.6"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	0.9"	0.0	-1.8"	-4.7"
TRAJ: 125 yds. zero	-.8"	0.8"	1.8"	2.1"	1.5"	0.0	-2.5"
TRAJ: 150 yds. zero	-.8"	1.3"	2.6"	3.3"	3.1"	2.1"	0.0
VELOCITY (fps)	1850	1760	1673	1590	1511	1436	1365
ENERGY (ft.-lbs.)	1201	1087	982	887	801	723	654
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.6"	-2.1"	-4.6"	-8.2"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.7"	-2.3"	-4.9"	-8.4"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.3"	-3.6"	-7.0"
TRAJ: 100 yds. zero	-.8"	0.5"	1.2"	1.0"	0.0	-2.0"	-5.0"
TRAJ: 125 yds. zero	-.8"	0.9"	1.9"	2.2"	1.6"	0.0	-2.6"
TRAJ: 150 yds. zero	-.8"	1.4"	2.8"	3.5"	3.3"	2.2"	0.0
VELOCITY (fps)	1800	1712	1627	1546	1469	1396	1329
ENERGY (ft.-lbs.)	1136	1028	928	838	757	684	619
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.7"	-2.4"	-5.1"	-8.8"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.5"	-5.2"	-9.0"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.9"	-7.4"
TRAJ: 100 yds. zero	-.8"	0.6"	1.2"	1.1"	0.0	-2.1"	-5.3"
TRAJ: 125 yds. zero	-.8"	1.0"	2.1"	2.3"	1.7"	0.0	-2.8"
TRAJ: 150 yds. zero	-.8"	1.5"	3.0"	3.7"	3.5"	2.3"	0.0
VELOCITY (fps)	1750	1664	1581	1502	1428	1358	1293
ENERGY (ft.-lbs.)	1074	971	877	791	715	647	586
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.8"	-2.7"	-5.5"	-9.6"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.7"	-5.6"	-9.7"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.5"	-4.1"	-7.9"
TRAJ: 100 yds. zero	-.8"	0.7"	1.3"	1.2"	0.0	-2.2"	-5.6"
TRAJ: 125 yds. zero	-.8"	1.1"	2.2"	2.5"	1.8"	0.0	-3.0"
TRAJ: 150 yds. zero	-.8"	1.6"	3.2"	4.0"	3.7"	2.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1700	1616	1535	1459	1387	1320	1258
ENERGY (ft.-lbs.)	1014	916	827	746	675	611	555
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.0"	-6.1"	-10.4"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-0.9"	-2.9"	-6.0"	-10.3"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.6"	-4.4"	-8.4"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.2"	0.0	-2.4"	-6.0"
TRAJ: 125 yds. zero	-.8"	1.2"	2.4"	2.7"	1.9"	0.0	-3.1"
TRAJ: 150 yds. zero	-.8"	1.7"	3.4"	4.2"	4.0"	2.6"	0.0
VELOCITY (fps)	1650	1568	1490	1416	1347	1283	1225
ENERGY (ft.-lbs.)	955	862	778	703	636	577	526
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.1"	-3.3"	-6.6"	-11.3"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.1"	-6.4"	-11.1"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.7"	-9.0"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.3"	0.0	-2.5"	-6.4"
TRAJ: 125 yds. zero	-.8"	1.3"	2.6"	2.8"	2.0"	0.0	-3.3"
TRAJ: 150 yds. zero	-.8"	1.9"	3.7"	4.5"	4.2"	2.8"	0.0
VELOCITY (fps)	1600	1520	1445	1374	1308	1247	1193
ENERGY (ft.-lbs.)	898	811	732	662	600	546	499
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-3.7"	-7.3"	-12.3"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.4"	-6.9"	-11.8"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.1"	-9.6"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.4"	0.0	-2.7"	-6.8"
TRAJ: 125 yds. zero	-.8"	1.5"	2.8"	3.0"	2.2"	0.0	-3.5"
TRAJ: 150 yds. zero	-.8"	2.0"	3.9"	4.8"	4.5"	3.0"	0.0
VELOCITY (fps)	1550	1473	1400	1332	1269	1213	1162
ENERGY (ft.-lbs.)	843	761	687	622	565	516	474
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.5"	-4.0"	-7.9"	-13.3"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.6"	-7.4"	-12.7"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.0"	-5.4"	-10.3"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0	-2.9"	-7.2"
TRAJ: 125 yds. zero	-.8"	1.6"	3.0"	3.2"	2.3"	0.0	-3.8"
TRAJ: 150 yds. zero	-.8"	2.2"	4.2"	5.1"	4.8"	3.1"	0.0
VELOCITY (fps)	1500	1426	1356	1291	1232	1179	1133
ENERGY (ft.-lbs.)	789	713	645	585	533	488	450
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.7"	-4.5"	-8.7"	-14.4"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-3.9"	-8.0"	-13.6"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-5.8"	-11.0"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.6"	0.0	-3.1"	-7.7"
TRAJ: 125 yds. zero	-.8"	1.7"	3.2"	3.5"	2.5"	0.0	-4.0"
TRAJ: 150 yds. zero	-.8"	2.4"	4.5"	5.5"	5.1"	3.3"	0.0
VELOCITY (fps)	1450	1379	1312	1251	1196	1148	1105
ENERGY (ft.-lbs.)	737	667	604	549	502	462	429
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.9"	-4.9"	-9.4"	-15.6"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.4"	-4.3"	-8.6"	-14.6"
TRAJ: 75 yds. zero	-.8"	0.6"	1.0"	0.0	-2.3"	-6.2"	-11.7"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.8"	0.0	-3.3"	-8.2"
TRAJ: 125 yds. zero	-.8"	1.9"	3.4"	3.7"	2.6"	0.0	-4.3"
TRAJ: 150 yds. zero	-.8"	2.6"	4.9"	5.9"	5.5"	3.6"	0.0
VELOCITY (fps)	1400	1332	1269	1213	1162	1118	1079
ENERGY (ft.-lbs.)	688	622	565	516	474	438	409
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.4"	-10.3"	-16.9"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.6"	-9.2"	-15.6"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.5"	-6.6"	-12.5"
TRAJ: 100 yds. zero	-.8"	1.4"	2.3"	1.9"	0.0	-3.5"	-8.7"
TRAJ: 125 yds. zero	-.8"	2.1"	3.7"	4.0"	2.8"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.8"	5.2"	6.2"	5.8"	3.8"	0.0
VELOCITY (fps)	1350	1286	1227	1175	1129	1089	1055
ENERGY (ft.-lbs.)	639	580	528	484	447	416	390
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.0"	-11.2"	-18.3"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.7"	-5.0"	-9.9"	-16.7"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.7"	-7.1"	-13.3"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.0"	0.0	-3.7"	-9.3"
TRAJ: 125 yds. zero	-.8"	2.2"	4.0"	4.3"	3.0"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	3.0"	5.6"	6.7"	6.2"	4.0"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1300	1240	1187	1139	1098	1062	1031
ENERGY (ft.-lbs.)	593	540	494	455	423	396	373
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.6"	-12.2"	-19.8"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.4"	-10.7"	-17.9"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.9"	-7.6"	-14.2"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-4.0"	-9.9"
TRAJ: 125 yds. zero	-.8"	2.4"	4.3"	4.6"	3.2"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	3.3"	6.0"	7.1"	6.6"	4.2"	0.0
VELOCITY (fps)	1250	1195	1147	1105	1068	1036	1008
ENERGY (ft.-lbs.)	548	501	461	428	400	377	356
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.2"	-13.3"	-21.3"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.8"	-11.5"	-19.2"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.1"	-8.1"	-15.2"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.3"	0.0	-4.2"	-10.5"
TRAJ: 125 yds. zero	-.8"	2.7"	4.6"	4.9"	3.4"	0.0	-5.4"
TRAJ: 150 yds. zero	-.8"	3.6"	6.4"	7.6"	7.0"	4.5"	0.0
VELOCITY (fps)	1200	1151	1108	1071	1039	1010	985
ENERGY (ft.-lbs.)	505	465	431	402	379	358	340
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-7.9"	-14.4"	-23.1"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.3"	-12.3"	-20.5"
TRAJ: 75 yds. zero	-.8"	1.1"	1.5"	0.0	-3.3"	-8.7"	-16.2"
TRAJ: 100 yds. zero	-.8"	2.0"	3.1"	2.5"	0.0	-4.5"	-11.2"
TRAJ: 125 yds. zero	-.8"	2.9"	4.9"	5.2"	3.6"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.8"	6.8"	8.1"	7.4"	4.8"	0.0
VELOCITY (fps)	1150	1107	1070	1038	1010	984	961
ENERGY (ft.-lbs.)	464	430	402	378	358	340	324
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.8"	-8.7"	-15.7"	-24.9"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.8"	-13.3"	-22.0"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.3"	-17.3"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.8"	-11.9"
TRAJ: 125 yds. zero	-.8"	3.1"	5.3"	5.6"	3.9"	0.0	-6.1"
TRAJ: 150 yds. zero	-.8"	4.2"	7.3"	8.6"	7.9"	5.1"	0.0
VELOCITY (fps)	1100	1064	1033	1005	980	957	936
ENERGY (ft.-lbs.)	424	397	374	354	337	321	308
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.6"	-17.1"	-27.0"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.3"	-14.3"	-23.7"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.0"	-18.5"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.2"	-12.7"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.0"	4.1"	0.0	-6.5"
TRAJ: 150 yds. zero	-.8"	4.5"	7.9"	9.2"	8.5"	5.4"	0.0
VELOCITY (fps)	1050	1020	994	970	948	928	909
ENERGY (ft.-lbs.)	387	365	346	330	315	302	290
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.6"	-18.8"	-29.5"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-8.0"	-15.5"	-25.6"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.8"	-19.9"
TRAJ: 100 yds. zero	-.8"	2.6"	4.0"	3.2"	0.0	-5.6"	-13.6"
TRAJ: 125 yds. zero	-.8"	3.8"	6.2"	6.5"	4.4"	0.0	-7.0"
TRAJ: 150 yds. zero	-.8"	4.9"	8.5"	10.0"	9.1"	5.8"	0.0
VELOCITY (fps)	1000	976	953	933	913	895	878
ENERGY (ft.-lbs.)	351	334	319	305	293	281	271
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.3"	-11.7"	-20.7"	-32.3"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.8"	-17.0"	-27.9"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.8"	-21.6"
TRAJ: 100 yds. zero	-.8"	2.9"	4.4"	3.4"	0.0	-6.0"	-14.8"
TRAJ: 125 yds. zero	-.8"	4.1"	6.8"	7.1"	4.8"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.4"	9.3"	10.8"	9.8"	6.3"	0.0
VELOCITY (fps)	950	930	911	893	876	859	844
ENERGY (ft.-lbs.)	317	303	291	280	269	259	250
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.0"	-13.1"	-23.0"	-35.8"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.7"	-18.7"	-30.7"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.0"	-12.9"	-23.7"
TRAJ: 100 yds. zero	-.8"	3.3"	4.8"	3.8"	0.0	-6.6"	-16.2"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.7"	5.3"	0.0	-8.2"
TRAJ: 150 yds. zero	-.8"	6.0"	10.2"	11.9"	10.8"	6.9"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	900	883	866	850	835	821	807
ENERGY (ft.-lbs.)	284	273	263	254	245	236	228
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.8"	-25.7"	-40.0"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.8"	-20.8"	-34.0"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.3"	-26.2"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.3"	-17.8"
TRAJ: 125 yds. zero	-.8"	5.1"	8.3"	8.6"	5.8"	0.0	-9.1"
TRAJ: 150 yds. zero	-.8"	6.7"	11.3"	13.1"	11.9"	7.6"	0.0
VELOCITY (fps)	850	835	820	806	793	780	767
ENERGY (ft.-lbs.)	253	245	236	228	220	213	206
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.7"	-29.1"	-45.0"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.1"	-23.3"	-38.0"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-16.0"	-29.3"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.7"	0.0	-8.1"	-19.9"
TRAJ: 125 yds. zero	-.8"	5.8"	9.3"	9.6"	6.5"	0.0	-10.1"
TRAJ: 150 yds. zero	-.8"	7.5"	12.7"	14.6"	13.2"	8.4"	0.0
VELOCITY (fps)	800	787	774	761	749	737	725
ENERGY (ft.-lbs.)	224	217	210	203	197	190	184
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.0"	-19.1"	-33.1"	-51.1"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.7"	-26.3"	-42.9"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.1"	-18.0"	-33.0"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.3"	0.0	-9.2"	-22.4"
TRAJ: 125 yds. zero	-.8"	6.6"	10.5"	10.8"	7.4"	0.0	-11.3"
TRAJ: 150 yds. zero	-.8"	8.5"	14.3"	16.5"	14.9"	9.5"	0.0
VELOCITY (fps)	750	738	726	715	703	692	682
ENERGY (ft.-lbs.)	197	191	185	179	174	168	163
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.5"	-22.1"	-38.0"	-58.5"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.7"	-30.0"	-48.9"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.1"	-20.5"	-37.5"
TRAJ: 100 yds. zero	-.8"	5.5"	7.8"	6.0"	0.0	-10.4"	-25.4"
TRAJ: 125 yds. zero	-.8"	7.6"	12.0"	12.3"	8.3"	0.0	-12.9"
TRAJ: 150 yds. zero	-.8"	9.7"	16.3"	18.7"	16.9"	10.7"	0.0
VELOCITY (fps)	700	689	678	668	657	647	637
ENERGY (ft.-lbs.)	172	167	161	156	152	147	142
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.3"	-25.6"	-44.0"	-67.6"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.6"	-18.1"	-34.6"	-56.3"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.3"	-23.6"	-43.1"
TRAJ: 100 yds. zero	-.8"	6.4"	9.0"	7.0"	0.0	-12.0"	-29.2"
TRAJ: 125 yds. zero	-.8"	8.8"	13.8"	14.2"	9.6"	0.0	-14.8"
TRAJ: 150 yds. zero	-.8"	11.3"	18.8"	21.5"	19.4"	12.3"	0.0
VELOCITY (fps)	650	640	630	620	611	601	592
ENERGY (ft.-lbs.)	148	144	139	135	131	127	123
TRAJ: 25 yds. zero	-.8"	0.0	-4.5"	-14.5"	-30.1"	-51.6"	-79.0"
TRAJ: 50 yds. zero	-.8"	2.2"	0.0	-7.7"	-21.1"	-40.3"	-65.5"
TRAJ: 75 yds. zero	-.8"	4.8"	5.1"	0.0	-10.8"	-27.5"	-50.1"
TRAJ: 100 yds. zero	-.8"	7.5"	10.6"	8.1"	0.0	-13.9"	-33.9"
TRAJ: 125 yds. zero	-.8"	10.3"	16.1"	16.5"	11.2"	0.0	-17.1"
TRAJ: 150 yds. zero	-.8"	13.2"	21.8"	25.0"	22.6"	14.3"	0.0
VELOCITY (fps)	600	591	582	573	564	555	546
ENERGY (ft.-lbs.)	126	122	119	115	111	108	105
TRAJ: 25 yds. zero	-.8"	0.0	-5.4"	-17.3"	-35.8"	-61.1"	-93.5"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.1"	-24.9"	-47.5"	-77.2"
TRAJ: 75 yds. zero	-.8"	5.8"	6.1"	0.0	-12.7"	-32.3"	-58.9"
TRAJ: 100 yds. zero	-.8"	8.9"	12.5"	9.5"	0.0	-16.4"	-39.8"
TRAJ: 125 yds. zero	-.8"	12.2"	19.0"	19.4"	13.1"	0.0	-20.1"
TRAJ: 150 yds. zero	-.8"	15.6"	25.7"	29.5"	26.5"	16.8"	0.0

38 CALIBER (.357" Dia.) 160 GRAIN JACKETED TRUNCATED CONE SILHOUETTE
SECTIONAL DENSITY: .179 BALLISTIC COEFFICIENT: .181

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2000	1896	1795	1699	1606	1519	1436
ENERGY (ft.-lbs.)	1421	1277	1145	1025	917	819	732
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.5"	-3.6"	-6.6"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-1.9"	-4.1"	-7.2"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.1"	-3.1"	-6.0"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.7"	-4.3"
TRAJ: 125 yds. zero	-.8"	0.7"	1.6"	1.9"	1.4"	0.0	-2.3"
TRAJ: 150 yds. zero	-.8"	1.1"	2.4"	3.0"	2.9"	1.9"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1950	1848	1749	1654	1564	1478	1398
ENERGY (ft.-lbs.)	1351	1213	1086	972	869	776	694
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.4"	-1.7"	-4.0"	-7.2"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.1"	-4.4"	-7.7"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.3"	-6.4"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.8"	-4.6"
TRAJ: 125 yds. zero	-.8"	0.8"	1.7"	2.0"	1.4"	0.0	-2.4"
TRAJ: 150 yds. zero	-.8"	1.2"	2.6"	3.2"	3.1"	2.0"	0.0
VELOCITY (fps)	1900	1799	1703	1610	1522	1439	1362
ENERGY (ft.-lbs.)	1282	1150	1030	921	823	735	659
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.5"	-2.0"	-4.4"	-7.8"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.2"	-4.7"	-8.2"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.3"	-3.5"	-6.8"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	1.0"	0.0	-1.9"	-4.9"
TRAJ: 125 yds. zero	-.8"	0.9"	1.9"	2.1"	1.5"	0.0	-2.6"
TRAJ: 150 yds. zero	-.8"	1.3"	2.7"	3.4"	3.2"	2.1"	0.0
VELOCITY (fps)	1850	1751	1656	1566	1480	1400	1326
ENERGY (ft.-lbs.)	1216	1089	975	871	778	696	624
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.6"	-2.2"	-4.8"	-8.5"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.7"	-2.4"	-5.0"	-8.7"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.8"	-7.2"
TRAJ: 100 yds. zero	-.8"	0.5"	1.2"	1.0"	0.0	-2.0"	-5.2"
TRAJ: 125 yds. zero	-.8"	1.0"	2.0"	2.3"	1.6"	0.0	-2.7"
TRAJ: 150 yds. zero	-.8"	1.4"	2.9"	3.6"	3.4"	2.3"	0.0
VELOCITY (fps)	1800	1703	1611	1522	1439	1362	1291
ENERGY (ft.-lbs.)	1151	1030	921	823	736	659	592
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.7"	-2.5"	-5.2"	-9.2"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.6"	-5.4"	-9.3"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.5"	-4.0"	-7.7"
TRAJ: 100 yds. zero	-.8"	0.6"	1.3"	1.1"	0.0	-2.2"	-5.5"
TRAJ: 125 yds. zero	-.8"	1.0"	2.1"	2.4"	1.7"	0.0	-2.9"
TRAJ: 150 yds. zero	-.8"	1.5"	3.1"	3.9"	3.7"	2.4"	0.0
VELOCITY (fps)	1750	1655	1565	1479	1399	1325	1257
ENERGY (ft.-lbs.)	1088	973	870	777	695	623	561
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.9"	-2.7"	-5.7"	-10.0"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.8"	-5.7"	-10.0"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.6"	-4.3"	-8.2"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.2"	0.0	-2.3"	-5.8"
TRAJ: 125 yds. zero	-.8"	1.1"	2.3"	2.6"	1.8"	0.0	-3.1"
TRAJ: 150 yds. zero	-.8"	1.7"	3.3"	4.1"	3.9"	2.6"	0.0
VELOCITY (fps)	1700	1608	1520	1437	1360	1289	1224
ENERGY (ft.-lbs.)	1027	918	820	733	657	590	532
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.1"	-6.3"	-10.8"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.0"	-6.2"	-10.7"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.6"	-8.7"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.4"	-6.2"
TRAJ: 125 yds. zero	-.8"	1.3"	2.5"	2.7"	2.0"	0.0	-3.3"
TRAJ: 150 yds. zero	-.8"	1.8"	3.6"	4.4"	4.1"	2.7"	0.0
VELOCITY (fps)	1650	1560	1475	1395	1321	1253	1193
ENERGY (ft.-lbs.)	967	864	772	691	620	558	506
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.2"	-3.4"	-6.9"	-11.7"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.2"	-6.6"	-11.4"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.9"	-9.3"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.4"	0.0	-2.6"	-6.6"
TRAJ: 125 yds. zero	-.8"	1.4"	2.6"	2.9"	2.1"	0.0	-3.5"
TRAJ: 150 yds. zero	-.8"	1.9"	3.8"	4.7"	4.4"	2.9"	0.0
VELOCITY (fps)	1600	1513	1430	1353	1283	1219	1163
ENERGY (ft.-lbs.)	909	813	727	651	585	528	481
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.4"	-3.8"	-7.5"	-12.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.5"	-7.1"	-12.2"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-1.9"	-5.2"	-9.9"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.5"	0.0	-2.8"	-7.0"
TRAJ: 125 yds. zero	-.8"	1.5"	2.8"	3.1"	2.2"	0.0	-3.7"
TRAJ: 150 yds. zero	-.8"	2.1"	4.1"	5.0"	4.7"	3.1"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1550	1465	1386	1313	1246	1187	1135
ENERGY (ft.-lbs.)	853	763	682	612	552	500	457
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.2"	-8.2"	-13.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.7"	-7.6"	-13.1"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.6"	-10.6"
TRAJ: 100 yds. zero	-.8"	1.0"	1.9"	1.6"	0.0	-3.0"	-7.5"
TRAJ: 125 yds. zero	-.8"	1.6"	3.1"	3.3"	2.4"	0.0	-3.9"
TRAJ: 150 yds. zero	-.8"	2.3"	4.4"	5.3"	5.0"	3.3"	0.0
VELOCITY (fps)	1500	1418	1343	1273	1211	1156	1108
ENERGY (ft.-lbs.)	799	715	640	576	520	474	436
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.8"	-4.6"	-8.9"	-14.8"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.0"	-8.2"	-14.0"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-6.0"	-11.3"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.2"	-7.9"
TRAJ: 125 yds. zero	-.8"	1.8"	3.3"	3.6"	2.5"	0.0	-4.2"
TRAJ: 150 yds. zero	-.8"	2.5"	4.7"	5.7"	5.3"	3.5"	0.0
VELOCITY (fps)	1450	1372	1300	1234	1176	1126	1083
ENERGY (ft.-lbs.)	747	668	600	541	492	450	417
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.0"	-5.1"	-9.7"	-16.0"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.4"	-8.8"	-15.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.4"	-6.4"	-12.1"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.4"	-8.5"
TRAJ: 125 yds. zero	-.8"	1.9"	3.5"	3.8"	2.7"	0.0	-4.4"
TRAJ: 150 yds. zero	-.8"	2.7"	5.0"	6.0"	5.6"	3.7"	0.0
VELOCITY (fps)	1400	1326	1258	1197	1144	1098	1059
ENERGY (ft.-lbs.)	696	624	562	509	465	428	398
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.6"	-10.6"	-17.3"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.5"	-16.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.1"	0.0	-2.6"	-6.8"	-12.8"
TRAJ: 100 yds. zero	-.8"	1.4"	2.3"	1.9"	0.0	-3.6"	-9.0"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.1"	2.9"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.9"	5.3"	6.4"	6.0"	3.9"	0.0
VELOCITY (fps)	1350	1280	1217	1161	1113	1071	1036
ENERGY (ft.-lbs.)	647	582	526	479	440	408	381
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.1"	-11.5"	-18.7"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.7"	-5.1"	-10.2"	-17.1"
TRAJ: 75 yds. zero	-.8"	0.8"	1.2"	0.0	-2.8"	-7.3"	-13.7"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0	-3.8"	-9.5"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.4"	3.1"	0.0	-4.9"
TRAJ: 150 yds. zero	-.8"	3.1"	5.7"	6.8"	6.4"	4.1"	0.0
VELOCITY (fps)	1300	1235	1177	1126	1083	1046	1014
ENERGY (ft.-lbs.)	600	541	492	451	417	389	365
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.7"	-12.5"	-20.2"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.5"	-10.9"	-18.3"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.0"	-7.8"	-14.6"
TRAJ: 100 yds. zero	-.8"	1.7"	2.7"	2.2"	0.0	-4.1"	-10.1"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.3"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.4"	6.1"	7.3"	6.7"	4.4"	0.0
VELOCITY (fps)	1250	1190	1138	1093	1055	1022	993
ENERGY (ft.-lbs.)	555	503	460	424	395	371	350
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.4"	-13.5"	-21.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.9"	-11.7"	-19.6"
TRAJ: 75 yds. zero	-.8"	1.0"	1.4"	0.0	-3.2"	-8.3"	-15.5"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.4"	0.0	-4.3"	-10.7"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.0"	3.5"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.7"	7.1"	4.6"	0.0
VELOCITY (fps)	1200	1146	1100	1061	1027	997	971
ENERGY (ft.-lbs.)	512	467	430	400	375	353	335
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.5"	-8.1"	-14.7"	-23.5"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.6"	-20.9"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.4"	-8.9"	-16.5"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.6"	-11.4"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.3"	3.7"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	3.9"	7.0"	8.2"	7.6"	4.9"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1150	1103	1064	1029	999	973	949
ENERGY (ft.-lbs.)	470	432	402	376	355	336	320
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.8"	-15.9"	-25.3"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.9"	-13.5"	-22.4"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.5"	-17.6"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.9"	-12.1"
TRAJ: 125 yds. zero	-.8"	3.2"	5.4"	5.7"	3.9"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.2"	7.5"	8.8"	8.1"	5.2"	0.0
VELOCITY (fps)	1100	1061	1027	997	971	947	925
ENERGY (ft.-lbs.)	430	400	375	353	335	318	304
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.7"	-17.3"	-27.4"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.4"	-14.5"	-24.0"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.2"	-18.8"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.2"	-12.9"
TRAJ: 125 yds. zero	-.8"	3.5"	5.8"	6.1"	4.2"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.6"	8.0"	9.4"	8.6"	5.5"	0.0
VELOCITY (fps)	1050	1018	989	963	940	918	898
ENERGY (ft.-lbs.)	392	368	347	330	314	300	287
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.7"	-19.0"	-29.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.9"	-8.1"	-15.7"	-26.0"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.9"	-20.2"
TRAJ: 100 yds. zero	-.8"	2.7"	4.0"	3.2"	0.0	-5.6"	-13.8"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.6"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	5.0"	8.7"	10.1"	9.2"	5.9"	0.0
VELOCITY (fps)	1000	973	949	927	906	887	868
ENERGY (ft.-lbs.)	355	336	320	305	292	279	268
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.8"	-20.9"	-32.7"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.2"	-8.8"	-17.2"	-28.2"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.9"	-21.9"
TRAJ: 100 yds. zero	-.8"	3.0"	4.4"	3.5"	0.0	-6.1"	-15.0"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.1"	4.9"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	5.5"	9.4"	11.0"	10.0"	6.4"	0.0

38 CALIBER (.357" Dia.) 180 GRAIN JACKETED TRUNCATED CONE SILHOUETTE
SECTIONAL DENSITY: .202 BALLISTIC COEFFICIENT: .232

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2000	1919	1839	1762	1687	1615	1546
ENERGY (ft.-lbs.)	1598	1471	1352	1241	1138	1043	955
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.2"	-1.4"	-3.3"	-6.0"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.8"	-3.8"	-6.6"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.1"	-2.9"	-5.5"
TRAJ: 100 yds. zero	-.8"	0.3"	0.9"	0.8"	0.0	-1.6"	-3.9"
TRAJ: 125 yds. zero	-.8"	0.7"	1.5"	1.7"	1.2"	0.0	-2.1"
TRAJ: 150 yds. zero	-.8"	1.0"	2.2"	2.8"	2.6"	1.7"	0.0
VELOCITY (fps)	1950	1870	1792	1716	1643	1573	1505
ENERGY (ft.-lbs.)	1520	1397	1283	1177	1079	988	905
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.6"	-3.6"	-6.5"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-1.9"	-4.0"	-7.1"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.1"	-3.1"	-5.9"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.8"	0.0	-1.7"	-4.2"
TRAJ: 125 yds. zero	-.8"	0.7"	1.6"	1.8"	1.3"	0.0	-2.2"
TRAJ: 150 yds. zero	-.8"	1.1"	2.4"	2.9"	2.8"	1.8"	0.0
VELOCITY (fps)	1900	1821	1745	1671	1599	1530	1465
ENERGY (ft.-lbs.)	1443	1325	1216	1115	1022	936	857
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.4"	-1.8"	-4.0"	-7.1"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.1"	-4.3"	-7.5"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.3"	-6.2"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.8"	-4.4"
TRAJ: 125 yds. zero	-.8"	0.8"	1.7"	2.0"	1.4"	0.0	-2.3"
TRAJ: 150 yds. zero	-.8"	1.2"	2.5"	3.1"	3.0"	1.9"	0.0
VELOCITY (fps)	1850	1773	1698	1625	1555	1489	1425
ENERGY (ft.-lbs.)	1368	1256	1152	1055	967	886	812
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.5"	-2.0"	-4.4"	-7.7"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.2"	-4.6"	-8.0"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.3"	-3.5"	-6.6"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	1.0"	0.0	-1.9"	-4.7"
TRAJ: 125 yds. zero	-.8"	0.9"	1.9"	2.1"	1.5"	0.0	-2.5"
TRAJ: 150 yds. zero	-.8"	1.3"	2.7"	3.3"	3.1"	2.1"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1800	1724	1651	1580	1512	1447	1386
ENERGY (ft.-lbs.)	1295	1188	1089	998	914	837	768
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.7"	-2.3"	-4.8"	-8.4"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.4"	-5.0"	-8.6"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.7"	-7.1"
TRAJ: 100 yds. zero	-.8"	0.6"	1.2"	1.0"	0.0	-2.0"	-5.0"
TRAJ: 125 yds. zero	-.8"	1.0"	2.0"	2.2"	1.6"	0.0	-2.6"
TRAJ: 150 yds. zero	-.8"	1.4"	2.9"	3.5"	3.3"	2.2"	0.0
VELOCITY (fps)	1750	1676	1604	1535	1469	1407	1348
ENERGY (ft.-lbs.)	1224	1122	1028	942	863	791	726
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.8"	-2.5"	-5.3"	-9.1"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.6"	-5.3"	-9.2"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.5"	-4.0"	-7.5"
TRAJ: 100 yds. zero	-.8"	0.6"	1.3"	1.1"	0.0	-2.1"	-5.3"
TRAJ: 125 yds. zero	-.8"	1.1"	2.1"	2.4"	1.7"	0.0	-2.8"
TRAJ: 150 yds. zero	-.8"	1.5"	3.1"	3.8"	3.5"	2.3"	0.0
VELOCITY (fps)	1700	1627	1558	1491	1427	1367	1310
ENERGY (ft.-lbs.)	1155	1058	970	888	814	747	686
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-0.9"	-2.8"	-5.8"	-9.9"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-0.9"	-2.8"	-5.7"	-9.8"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.6"	-4.2"	-8.0"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.2"	0.0	-2.3"	-5.7"
TRAJ: 125 yds. zero	-.8"	1.2"	2.3"	2.5"	1.8"	0.0	-3.0"
TRAJ: 150 yds. zero	-.8"	1.7"	3.3"	4.0"	3.8"	2.5"	0.0
VELOCITY (fps)	1650	1579	1512	1447	1386	1328	1274
ENERGY (ft.-lbs.)	1088	997	913	837	767	705	649
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.1"	-3.2"	-6.3"	-10.8"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.0"	-6.2"	-10.6"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.7"	-4.5"	-8.6"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.4"	-6.0"
TRAJ: 125 yds. zero	-.8"	1.3"	2.5"	2.7"	1.9"	0.0	-3.2"
TRAJ: 150 yds. zero	-.8"	1.8"	3.5"	4.3"	4.0"	2.6"	0.0
VELOCITY (fps)	1600	1531	1466	1403	1345	1290	1239
ENERGY (ft.-lbs.)	1023	937	858	787	722	665	613
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-3.5"	-6.9"	-11.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.3"	-6.6"	-11.3"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.8"	-9.2"
TRAJ: 100 yds. zero	-.8"	0.9"	1.6"	1.4"	0.0	-2.6"	-6.4"
TRAJ: 125 yds. zero	-.8"	1.4"	2.7"	2.9"	2.1"	0.0	-3.4"
TRAJ: 150 yds. zero	-.8"	1.9"	3.8"	4.6"	4.3"	2.8"	0.0
VELOCITY (fps)	1550	1484	1420	1360	1304	1252	1205
ENERGY (ft.-lbs.)	960	879	806	740	680	627	580
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.5"	-3.9"	-7.6"	-12.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.5"	-7.1"	-12.1"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.0"	-5.2"	-9.8"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0	-2.7"	-6.9"
TRAJ: 125 yds. zero	-.8"	1.5"	2.9"	3.1"	2.2"	0.0	-3.6"
TRAJ: 150 yds. zero	-.8"	2.1"	4.0"	4.9"	4.6"	3.0"	0.0
VELOCITY (fps)	1500	1436	1375	1318	1265	1216	1172
ENERGY (ft.-lbs.)	899	824	756	694	640	591	549
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.7"	-4.3"	-8.3"	-13.8"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-3.8"	-7.7"	-13.0"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.1"	-5.6"	-10.5"
TRAJ: 100 yds. zero	-.8"	1.1"	1.9"	1.6"	0.0	-2.9"	-7.3"
TRAJ: 125 yds. zero	-.8"	1.7"	3.1"	3.3"	2.3"	0.0	-3.8"
TRAJ: 150 yds. zero	-.8"	2.3"	4.3"	5.2"	4.9"	3.2"	0.0
VELOCITY (fps)	1450	1388	1331	1277	1227	1182	1141
ENERGY (ft.-lbs.)	840	770	708	651	602	558	520
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.9"	-4.8"	-9.1"	-15.0"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.4"	-4.1"	-8.3"	-14.0"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.3"	-6.0"	-11.2"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.7"	0.0	-3.1"	-7.8"
TRAJ: 125 yds. zero	-.8"	1.8"	3.3"	3.6"	2.5"	0.0	-4.1"
TRAJ: 150 yds. zero	-.8"	2.5"	4.7"	5.6"	5.2"	3.4"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1400	1341	1287	1236	1190	1149	1112
ENERGY (ft.-lbs.)	783	719	662	611	566	527	494
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.1"	-5.3"	-9.9"	-16.3"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.4"	-8.9"	-15.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.4"	-6.4"	-12.0"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.4"	-8.4"
TRAJ: 125 yds. zero	-.8"	2.0"	3.6"	3.8"	2.7"	0.0	-4.3"
TRAJ: 150 yds. zero	-.8"	2.7"	5.0"	6.0"	5.6"	3.6"	0.0
VELOCITY (fps)	1350	1295	1243	1197	1155	1117	1084
ENERGY (ft.-lbs.)	728	670	618	572	533	499	470
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.4"	-5.8"	-10.9"	-17.6"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-4.8"	-9.6"	-16.2"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.6"	-6.9"	-12.8"
TRAJ: 100 yds. zero	-.8"	1.5"	2.4"	2.0"	0.0	-3.6"	-8.9"
TRAJ: 125 yds. zero	-.8"	2.2"	3.8"	4.1"	2.9"	0.0	-4.6"
TRAJ: 150 yds. zero	-.8"	2.9"	5.4"	6.4"	5.9"	3.8"	0.0
VELOCITY (fps)	1300	1248	1201	1159	1121	1087	1057
ENERGY (ft.-lbs.)	675	623	577	536	502	472	447
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.7"	-6.4"	-11.8"	-19.1"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.2"	-10.4"	-17.3"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.8"	-7.4"	-13.7"
TRAJ: 100 yds. zero	-.8"	1.6"	2.6"	2.1"	0.0	-3.8"	-9.5"
TRAJ: 125 yds. zero	-.8"	2.4"	4.1"	4.4"	3.1"	0.0	-4.9"
TRAJ: 150 yds. zero	-.8"	3.2"	5.8"	6.9"	6.3"	4.1"	0.0
VELOCITY (fps)	1250	1203	1160	1122	1088	1058	1032
ENERGY (ft.-lbs.)	624	578	538	503	473	448	425
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.0"	-7.1"	-12.9"	-20.7"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.0"	-5.7"	-11.2"	-18.6"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.0"	-7.9"	-14.7"
TRAJ: 100 yds. zero	-.8"	1.8"	2.8"	2.3"	0.0	-4.1"	-10.1"
TRAJ: 125 yds. zero	-.8"	2.6"	4.5"	4.7"	3.3"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.5"	6.2"	7.3"	6.8"	4.3"	0.0
VELOCITY (fps)	1200	1158	1120	1086	1057	1030	1006
ENERGY (ft.-lbs.)	575	535	501	472	446	424	405
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-7.8"	-14.1"	-22.5"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.1"	-12.0"	-20.0"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.3"	-8.5"	-15.7"
TRAJ: 100 yds. zero	-.8"	1.9"	3.1"	2.4"	0.0	-4.4"	-10.8"
TRAJ: 125 yds. zero	-.8"	2.8"	4.8"	5.1"	3.5"	0.0	-5.6"
TRAJ: 150 yds. zero	-.8"	3.7"	6.7"	7.9"	7.2"	4.6"	0.0
VELOCITY (fps)	1150	1113	1080	1051	1026	1002	981
ENERGY (ft.-lbs.)	528	495	466	442	420	401	385
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.8"	-8.5"	-15.4"	-24.4"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.3"	-6.6"	-13.0"	-21.5"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.5"	-9.1"	-16.8"
TRAJ: 100 yds. zero	-.8"	2.1"	3.3"	2.6"	0.0	-4.7"	-11.5"
TRAJ: 125 yds. zero	-.8"	3.1"	5.2"	5.5"	3.8"	0.0	-5.9"
TRAJ: 150 yds. zero	-.8"	4.1"	7.2"	8.4"	7.7"	4.9"	0.0
VELOCITY (fps)	1100	1069	1041	1016	994	973	954
ENERGY (ft.-lbs.)	484	457	433	413	395	378	364
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.2"	-9.4"	-16.8"	-26.5"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.6"	-7.2"	-14.1"	-23.2"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.8"	-9.8"	-18.1"
TRAJ: 100 yds. zero	-.8"	2.4"	3.6"	2.9"	0.0	-5.0"	-12.4"
TRAJ: 125 yds. zero	-.8"	3.4"	5.6"	5.9"	4.0"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.4"	7.7"	9.0"	8.3"	5.3"	0.0
VELOCITY (fps)	1050	1024	1001	980	960	942	925
ENERGY (ft.-lbs.)	441	419	400	384	369	355	342
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.7"	-10.4"	-18.4"	-28.9"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-7.9"	-15.3"	-25.1"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.1"	-10.6"	-19.5"
TRAJ: 100 yds. zero	-.8"	2.6"	3.9"	3.1"	0.0	-5.4"	-13.3"
TRAJ: 125 yds. zero	-.8"	3.7"	6.1"	6.4"	4.4"	0.0	-6.8"
TRAJ: 150 yds. zero	-.8"	4.8"	8.4"	9.8"	8.9"	5.7"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	979	959	941	924	908	893
ENERGY (ft.-lbs.)	400	383	368	354	341	330	318
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.3"	-11.6"	-20.4"	-31.8"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.6"	-16.7"	-27.4"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.5"	-11.6"	-21.2"
TRAJ: 100 yds. zero	-.8"	2.9"	4.3"	3.4"	0.0	-5.9"	-14.5"
TRAJ: 125 yds. zero	-.8"	4.1"	6.7"	6.9"	4.7"	0.0	-7.4"
TRAJ: 150 yds. zero	-.8"	5.3"	9.1"	10.6"	9.6"	6.1"	0.0
VELOCITY (fps)	950	932	916	900	885	871	857
ENERGY (ft.-lbs.)	361	347	335	324	313	303	294
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.0"	-12.9"	-22.7"	-35.3"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.4"	-9.6"	-18.4"	-30.2"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.0"	-12.7"	-23.3"
TRAJ: 100 yds. zero	-.8"	3.2"	4.8"	3.7"	0.0	-6.5"	-15.9"
TRAJ: 125 yds. zero	-.8"	4.5"	7.4"	7.6"	5.2"	0.0	-8.1"
TRAJ: 150 yds. zero	-.8"	5.9"	10.1"	11.7"	10.6"	6.7"	0.0
VELOCITY (fps)	900	885	871	857	844	831	819
ENERGY (ft.-lbs.)	324	313	303	294	285	276	268
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.8"	-14.6"	-25.4"	-39.4"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.7"	-20.5"	-33.5"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.5"	-14.1"	-25.8"
TRAJ: 100 yds. zero	-.8"	3.6"	5.3"	4.1"	0.0	-7.2"	-17.5"
TRAJ: 125 yds. zero	-.8"	5.1"	8.2"	8.5"	5.7"	0.0	-8.9"
TRAJ: 150 yds. zero	-.8"	6.6"	11.2"	12.9"	11.7"	7.4"	0.0

38 CALIBER (.358" Dia.) 148 GRAIN LEAD BEVEL BASE WADCUTTER
SECTIONAL DENSITY: .165 BALLISTIC COEFFICIENT: .055

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	921	858	805	758	715	675
ENERGY (ft.-lbs.)	329	278	242	213	189	168	150
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.5"	-14.5"	-26.3"	-42.2"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.8"	-11.0"	-21.9"	-37.0"
TRAJ: 75 yds. zero	-.8"	2.2"	2.5"	0.0	-5.9"	-15.5"	-29.3"
TRAJ: 100 yds. zero	-.8"	3.6"	5.5"	4.4"	0.0	-8.2"	-20.5"
TRAJ: 125 yds. zero	-.8"	5.3"	8.7"	9.3"	6.5"	0.0	-10.7"
TRAJ: 150 yds. zero	-.8"	7.0"	12.3"	14.7"	13.7"	8.9"	0.0
VELOCITY (fps)	950	882	826	776	732	691	653
ENERGY (ft.-lbs.)	297	256	224	198	176	157	140
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.2"	-15.9"	-28.7"	-46.0"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.2"	-11.9"	-23.7"	-40.0"
TRAJ: 75 yds. zero	-.8"	2.4"	2.8"	0.0	-6.4"	-16.8"	-31.7"
TRAJ: 100 yds. zero	-.8"	4.0"	6.0"	4.8"	0.0	-8.8"	-22.1"
TRAJ: 125 yds. zero	-.8"	5.7"	9.5"	10.1"	7.0"	0.0	-11.6"
TRAJ: 150 yds. zero	-.8"	7.7"	13.3"	15.8"	14.7"	9.6"	0.0
VELOCITY (fps)	900	841	790	744	702	663	627
ENERGY (ft.-lbs.)	266	232	205	182	162	145	129
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-8.0"	-17.7"	-31.7"	-50.7"
TRAJ: 50 yds. zero	-.8"	1.1"	0.0	-4.6"	-13.1"	-26.0"	-43.9"
TRAJ: 75 yds. zero	-.8"	2.7"	3.1"	0.0	-7.0"	-18.4"	-34.6"
TRAJ: 100 yds. zero	-.8"	4.4"	6.6"	5.2"	0.0	-9.6"	-24.1"
TRAJ: 125 yds. zero	-.8"	6.3"	10.4"	11.0"	7.7"	0.0	-12.6"
TRAJ: 150 yds. zero	-.8"	8.4"	14.6"	17.3"	16.1"	10.5"	0.0
VELOCITY (fps)	850	798	751	709	670	633	598
ENERGY (ft.-lbs.)	237	209	186	165	147	132	118
TRAJ: 25 yds. zero	-.8"	0.0	-2.6"	-9.1"	-19.8"	-35.4"	-56.4"
TRAJ: 50 yds. zero	-.8"	1.3"	0.0	-5.2"	-14.6"	-28.9"	-48.6"
TRAJ: 75 yds. zero	-.8"	3.0"	3.4"	0.0	-7.7"	-20.3"	-38.3"
TRAJ: 100 yds. zero	-.8"	5.0"	7.3"	5.8"	0.0	-10.6"	-26.7"
TRAJ: 125 yds. zero	-.8"	7.1"	11.6"	12.2"	8.5"	0.0	-13.9"
TRAJ: 150 yds. zero	-.8"	9.4"	16.2"	19.2"	17.8"	11.6"	0.0
VELOCITY (fps)	800	753	711	671	634	599	567
ENERGY (ft.-lbs.)	210	186	166	148	132	118	105
TRAJ: 25 yds. zero	-.8"	0.0	-3.0"	-10.4"	-22.5"	-40.0"	-63.6"
TRAJ: 50 yds. zero	-.8"	1.5"	0.0	-5.8"	-16.4"	-32.5"	-54.5"
TRAJ: 75 yds. zero	-.8"	3.5"	3.9"	0.0	-8.7"	-22.8"	-42.9"
TRAJ: 100 yds. zero	-.8"	5.6"	8.2"	6.5"	0.0	-11.9"	-29.8"
TRAJ: 125 yds. zero	-.8"	8.0"	13.0"	13.7"	9.5"	0.0	-15.6"
TRAJ: 150 yds. zero	-.8"	10.6"	18.2"	21.4"	19.9"	13.0"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	750	708	668	632	597	564	533
ENERGY (ft.-lbs.)	185	165	147	131	117	105	93
TRAJ: 25 yds. zero	-.8"	0.0	-3.5"	-11.9"	-25.8"	-45.7"	-72.5"
TRAJ: 50 yds. zero	-.8"	1.8"	0.0	-6.6"	-18.7"	-36.9"	-61.9"
TRAJ: 75 yds. zero	-.8"	4.0"	4.4"	0.0	-9.9"	-25.8"	-48.6"
TRAJ: 100 yds. zero	-.8"	6.4"	9.4"	7.4"	0.0	-13.5"	-33.8"
TRAJ: 125 yds. zero	-.8"	9.1"	14.8"	15.5"	10.8"	0.0	-17.6"
TRAJ: 150 yds. zero	-.8"	12.1"	20.6"	24.3"	22.5"	14.7"	0.0
VELOCITY (fps)	700	661	625	591	558	527	498
ENERGY (ft.-lbs.)	161	144	128	115	102	91	81
TRAJ: 25 yds. zero	-.8"	0.0	-4.2"	-13.9"	-29.9"	-52.8"	-83.6"
TRAJ: 50 yds. zero	-.8"	2.1"	0.0	-7.6"	-21.5"	-42.4"	-71.0"
TRAJ: 75 yds. zero	-.8"	4.6"	5.1"	0.0	-11.3"	-29.6"	-55.8"
TRAJ: 100 yds. zero	-.8"	7.5"	10.8"	8.5"	0.0	-15.5"	-38.7"
TRAJ: 125 yds. zero	-.8"	10.6"	17.0"	17.8"	12.4"	0.0	-20.2"
TRAJ: 150 yds. zero	-.8"	13.9"	23.7"	27.9"	25.8"	16.8"	0.0

38 CALIBER (.358" Dia.) 148 GRAIN LEAD HOLLOW BASE WADCUTTER
 SECTIONAL DENSITY: .165 BALLISTIC COEFFICIENT: .047

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	909	839	780	728	681	637
ENERGY (ft.-lbs.)	329	272	231	200	174	152	133
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.7"	-15.2"	-27.6"	-44.7"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-4.0"	-11.5"	-23.1"	-39.3"
TRAJ: 75 yds. zero	-.8"	2.2"	2.7"	0.0	-6.2"	-16.4"	-31.3"
TRAJ: 100 yds. zero	-.8"	3.8"	5.8"	4.6"	0.0	-8.7"	-22.0"
TRAJ: 125 yds. zero	-.8"	5.5"	9.2"	9.9"	7.0"	0.0	-11.6"
TRAJ: 150 yds. zero	-.8"	7.5"	13.1"	15.7"	14.7"	9.6"	0.0
VELOCITY (fps)	950	872	808	753	704	658	616
ENERGY (ft.-lbs.)	297	250	215	186	163	142	125
TRAJ: 25 yds. zero	-.8"	0.0	-2.1"	-7.4"	-16.6"	-30.1"	-48.6"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.3"	-12.5"	-25.0"	-42.5"
TRAJ: 75 yds. zero	-.8"	2.5"	2.9"	0.0	-6.7"	-17.8"	-33.8"
TRAJ: 100 yds. zero	-.8"	4.2"	6.2"	5.0"	0.0	-9.4"	-23.7"
TRAJ: 125 yds. zero	-.8"	6.0"	10.0"	10.7"	7.5"	0.0	-12.5"
TRAJ: 150 yds. zero	-.8"	8.1"	14.2"	16.9"	15.8"	10.4"	0.0
VELOCITY (fps)	900	832	774	722	676	632	592
ENERGY (ft.-lbs.)	266	227	197	171	150	131	115
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-8.3"	-18.4"	-33.2"	-53.5"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.8"	-13.7"	-27.4"	-46.5"
TRAJ: 75 yds. zero	-.8"	2.8"	3.2"	0.0	-7.3"	-19.4"	-36.9"
TRAJ: 100 yds. zero	-.8"	4.6"	6.9"	5.5"	0.0	-10.2"	-25.9"
TRAJ: 125 yds. zero	-.8"	6.6"	11.0"	11.6"	8.2"	0.0	-13.6"
TRAJ: 150 yds. zero	-.8"	8.9"	15.5"	18.4"	17.2"	11.3"	0.0
VELOCITY (fps)	850	790	737	689	644	603	564
ENERGY (ft.-lbs.)	237	205	178	156	136	120	105
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.4"	-20.6"	-37.1"	-59.5"
TRAJ: 50 yds. zero	-.8"	1.3"	0.0	-5.3"	-15.3"	-30.4"	-51.5"
TRAJ: 75 yds. zero	-.8"	3.1"	3.6"	0.0	-8.1"	-21.5"	-40.8"
TRAJ: 100 yds. zero	-.8"	5.2"	7.6"	6.1"	0.0	-11.3"	-28.6"
TRAJ: 125 yds. zero	-.8"	7.4"	12.2"	12.9"	9.1"	0.0	-15.0"
TRAJ: 150 yds. zero	-.8"	9.9"	17.2"	20.4"	19.0"	12.5"	0.0
VELOCITY (fps)	800	746	697	652	610	571	535
ENERGY (ft.-lbs.)	210	183	160	140	122	107	94
TRAJ: 25 yds. zero	-.8"	0.0	-3.1"	-10.7"	-23.4"	-41.9"	-67.0"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-6.0"	-17.1"	-34.1"	-57.7"
TRAJ: 75 yds. zero	-.8"	3.6"	4.0"	0.0	-9.1"	-24.1"	-45.6"
TRAJ: 100 yds. zero	-.8"	5.8"	8.6"	6.8"	0.0	-12.7"	-32.0"
TRAJ: 125 yds. zero	-.8"	8.4"	13.6"	14.4"	10.1"	0.0	-16.8"
TRAJ: 150 yds. zero	-.8"	11.2"	19.2"	22.8"	21.3"	14.0"	0.0
VELOCITY (fps)	750	701	656	614	574	537	503
ENERGY (ft.-lbs.)	185	161	141	124	108	95	83
TRAJ: 25 yds. zero	-.8"	0.0	-3.6"	-12.3"	-26.8"	-47.8"	-76.3"
TRAJ: 50 yds. zero	-.8"	1.8"	0.0	-6.9"	-19.5"	-38.7"	-65.4"
TRAJ: 75 yds. zero	-.8"	4.1"	4.6"	0.0	-10.3"	-27.3"	-51.7"
TRAJ: 100 yds. zero	-.8"	6.7"	9.8"	7.8"	0.0	-14.3"	-36.2"
TRAJ: 125 yds. zero	-.8"	9.6"	15.5"	16.4"	11.5"	0.0	-19.0"
TRAJ: 150 yds. zero	-.8"	12.7"	21.8"	25.8"	24.1"	15.8"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	700	655	613	574	537	502	469
ENERGY (ft.-lbs.)	161	141	123	108	95	83	72
TRAJ: 25 yds. zero	-.8"	0.0	-4.3"	-14.3"	-31.0"	-55.2"	-87.9"
TRAJ: 50 yds. zero	-.8"	2.1"	0.0	-7.9"	-22.4"	-44.5"	-75.1"
TRAJ: 75 yds. zero	-.8"	4.8"	5.3"	0.0	-11.9"	-31.3"	-59.3"
TRAJ: 100 yds. zero	-.8"	7.7"	11.2"	8.9"	0.0	-16.4"	-41.5"
TRAJ: 125 yds. zero	-.8"	11.0"	17.8"	18.8"	13.2"	0.0	-21.8"
TRAJ: 150 yds. zero	-.8"	14.7"	25.0"	29.6"	27.7"	18.1"	0.0

38 CALIBER (.358" Dia.) 148 GRAIN LEAD DOUBLE END WADCUTTER
SECTIONAL DENSITY: .165 BALLISTIC COEFFICIENT: .048

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	911	842	784	732	686	643
ENERGY (ft.-lbs.)	329	272	233	202	176	154	136
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.7"	-15.1"	-27.4"	-44.4"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-4.0"	-11.4"	-22.9"	-38.9"
TRAJ: 75 yds. zero	-.8"	2.2"	2.6"	0.0	-6.1"	-16.3"	-31.0"
TRAJ: 100 yds. zero	-.8"	3.8"	5.7"	4.6"	0.0	-8.6"	-21.8"
TRAJ: 125 yds. zero	-.8"	5.5"	9.2"	9.8"	6.9"	0.0	-11.4"
TRAJ: 150 yds. zero	-.8"	7.4"	13.0"	15.5"	14.5"	9.5"	0.0
VELOCITY (fps)	950	873	811	756	708	663	621
ENERGY (ft.-lbs.)	297	251	216	188	165	144	127
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.4"	-16.5"	-29.9"	-48.2"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.3"	-12.4"	-24.8"	-42.1"
TRAJ: 75 yds. zero	-.8"	2.5"	2.9"	0.0	-6.7"	-17.6"	-33.5"
TRAJ: 100 yds. zero	-.8"	4.1"	6.2"	5.0"	0.0	-9.3"	-23.5"
TRAJ: 125 yds. zero	-.8"	6.0"	9.9"	10.6"	7.4"	0.0	-12.3"
TRAJ: 150 yds. zero	-.8"	8.0"	14.0"	16.7"	15.7"	10.3"	0.0
VELOCITY (fps)	900	833	776	726	679	637	597
ENERGY (ft.-lbs.)	266	228	198	173	152	133	117
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-8.3"	-18.3"	-33.0"	-53.1"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.8"	-13.6"	-27.2"	-46.1"
TRAJ: 75 yds. zero	-.8"	2.8"	3.2"	0.0	-7.3"	-19.3"	-36.6"
TRAJ: 100 yds. zero	-.8"	4.6"	6.8"	5.5"	0.0	-10.2"	-25.6"
TRAJ: 125 yds. zero	-.8"	6.6"	10.9"	11.6"	8.1"	0.0	-13.4"
TRAJ: 150 yds. zero	-.8"	8.8"	15.4"	18.3"	17.1"	11.2"	0.0
VELOCITY (fps)	850	791	739	691	648	607	569
ENERGY (ft.-lbs.)	237	205	179	157	138	121	106
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.3"	-20.5"	-36.9"	-59.1"
TRAJ: 50 yds. zero	-.8"	1.3"	0.0	-5.3"	-15.2"	-30.2"	-51.0"
TRAJ: 75 yds. zero	-.8"	3.1"	3.5"	0.0	-8.1"	-21.3"	-40.4"
TRAJ: 100 yds. zero	-.8"	5.1"	7.6"	6.1"	0.0	-11.2"	-28.3"
TRAJ: 125 yds. zero	-.8"	7.4"	12.1"	12.8"	9.0"	0.0	-14.8"
TRAJ: 150 yds. zero	-.8"	9.8"	17.0"	20.2"	18.9"	12.4"	0.0
VELOCITY (fps)	800	747	699	655	614	575	539
ENERGY (ft.-lbs.)	210	183	161	141	124	109	95
TRAJ: 25 yds. zero	-.8"	0.0	-3.1"	-10.6"	-23.2"	-41.6"	-66.5"
TRAJ: 50 yds. zero	-.8"	1.5"	0.0	-6.0"	-17.1"	-33.9"	-57.2"
TRAJ: 75 yds. zero	-.8"	3.5"	4.0"	0.0	-9.1"	-23.9"	-45.2"
TRAJ: 100 yds. zero	-.8"	5.8"	8.5"	6.8"	0.0	-12.5"	-31.6"
TRAJ: 125 yds. zero	-.8"	8.3"	13.5"	14.3"	10.0"	0.0	-16.6"
TRAJ: 150 yds. zero	-.8"	11.1"	19.1"	22.6"	21.1"	13.8"	0.0
VELOCITY (fps)	750	702	657	616	578	541	507
ENERGY (ft.-lbs.)	185	162	142	125	110	96	84
TRAJ: 25 yds. zero	-.8"	0.0	-3.6"	-12.3"	-26.6"	-47.5"	-75.7"
TRAJ: 50 yds. zero	-.8"	1.8"	0.0	-6.8"	-19.4"	-38.4"	-64.9"
TRAJ: 75 yds. zero	-.8"	4.1"	4.6"	0.0	-10.3"	-27.0"	-51.2"
TRAJ: 100 yds. zero	-.8"	6.7"	9.7"	7.7"	0.0	-14.2"	-35.8"
TRAJ: 125 yds. zero	-.8"	9.5"	15.4"	16.2"	11.4"	0.0	-18.8"
TRAJ: 150 yds. zero	-.8"	12.6"	21.6"	25.6"	23.9"	15.6"	0.0
VELOCITY (fps)	700	656	615	576	540	506	473
ENERGY (ft.-lbs.)	161	141	124	109	96	84	74
TRAJ: 25 yds. zero	-.8"	0.0	-4.3"	-14.3"	-30.8"	-54.8"	-87.3"
TRAJ: 50 yds. zero	-.8"	2.1"	0.0	-7.9"	-22.3"	-44.2"	-74.5"
TRAJ: 75 yds. zero	-.8"	4.8"	5.3"	0.0	-11.8"	-31.1"	-58.8"
TRAJ: 100 yds. zero	-.8"	7.7"	11.1"	8.8"	0.0	-16.3"	-41.1"
TRAJ: 125 yds. zero	-.8"	11.0"	17.7"	18.6"	13.1"	0.0	-21.5"
TRAJ: 150 yds. zero	-.8"	14.6"	24.8"	29.4"	27.4"	17.9"	0.0

38 CALIBER (.358" Dia.) 158 GRAIN LEAD ROUND NOSE
SECTIONAL DENSITY: .176 BALLISTIC COEFFICIENT: .159

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1100	1056	1018	986	957	931	907
ENERGY (ft.-lbs.)	424	391	364	341	321	304	289
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.4"	-9.9"	-17.7"	-28.0"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.6"	-14.8"	-24.6"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.0"	-10.4"	-19.2"
TRAJ: 100 yds. zero	-.8"	2.5"	3.8"	3.0"	0.0	-5.4"	-13.2"
TRAJ: 125 yds. zero	-.8"	3.5"	5.9"	6.2"	4.3"	0.0	-6.8"
TRAJ: 150 yds. zero	-.8"	4.7"	8.2"	9.6"	8.8"	5.7"	0.0
VELOCITY (fps)	1050	1013	982	953	928	904	882
ENERGY (ft.-lbs.)	387	360	338	319	302	287	273
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.9"	-10.8"	-19.3"	-30.4"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-2.9"	-8.2"	-16.0"	-26.5"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.3"	-11.2"	-20.6"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.2"	0.0	-5.8"	-14.2"
TRAJ: 125 yds. zero	-.8"	3.9"	6.4"	6.7"	4.6"	0.0	-7.3"
TRAJ: 150 yds. zero	-.8"	5.1"	8.8"	10.3"	9.4"	6.0"	0.0
VELOCITY (fps)	1000	970	943	918	895	874	854
ENERGY (ft.-lbs.)	351	330	312	296	281	268	256
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.5"	-12.0"	-21.2"	-33.3"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-9.0"	-17.4"	-28.8"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.7"	-12.1"	-22.4"
TRAJ: 100 yds. zero	-.8"	3.0"	4.5"	3.5"	0.0	-6.2"	-15.3"
TRAJ: 125 yds. zero	-.8"	4.2"	7.0"	7.3"	5.0"	0.0	-7.8"
TRAJ: 150 yds. zero	-.8"	5.5"	9.6"	11.2"	10.2"	6.5"	0.0
VELOCITY (fps)	950	925	901	880	859	840	822
ENERGY (ft.-lbs.)	317	300	285	271	259	248	237
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.4"	-23.5"	-36.7"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.9"	-19.2"	-31.5"
TRAJ: 75 yds. zero	-.8"	2.0"	2.4"	0.0	-5.2"	-13.3"	-24.4"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.9"	0.0	-6.8"	-16.7"
TRAJ: 125 yds. zero	-.8"	4.7"	7.7"	8.0"	5.4"	0.0	-8.5"
TRAJ: 150 yds. zero	-.8"	6.1"	10.5"	12.2"	11.1"	7.1"	0.0
VELOCITY (fps)	900	878	858	839	821	803	786
ENERGY (ft.-lbs.)	284	271	258	247	236	226	217
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.0"	-15.0"	-26.3"	-40.9"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.0"	-21.3"	-34.9"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.7"	-14.7"	-27.0"
TRAJ: 100 yds. zero	-.8"	3.8"	5.5"	4.3"	0.0	-7.5"	-18.4"
TRAJ: 125 yds. zero	-.8"	5.3"	8.5"	8.8"	6.0"	0.0	-9.4"
TRAJ: 150 yds. zero	-.8"	6.8"	11.6"	13.5"	12.3"	7.8"	0.0
VELOCITY (fps)	850	831	813	796	780	764	748
ENERGY (ft.-lbs.)	253	242	232	222	213	205	196
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-8.0"	-17.0"	-29.6"	-46.0"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.5"	-12.3"	-23.8"	-39.0"
TRAJ: 75 yds. zero	-.8"	2.7"	3.0"	0.0	-6.4"	-16.4"	-30.0"
TRAJ: 100 yds. zero	-.8"	4.3"	6.2"	4.8"	0.0	-8.4"	-20.5"
TRAJ: 125 yds. zero	-.8"	5.9"	9.5"	9.8"	6.7"	0.0	-10.4"
TRAJ: 150 yds. zero	-.8"	7.7"	13.0"	15.0"	13.6"	8.7"	0.0
VELOCITY (fps)	800	783	767	752	737	722	708
ENERGY (ft.-lbs.)	224	215	206	198	190	183	176
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.2"	-19.4"	-33.7"	-52.1"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.1"	-14.0"	-26.9"	-43.9"
TRAJ: 75 yds. zero	-.8"	3.1"	3.4"	0.0	-7.2"	-18.4"	-33.8"
TRAJ: 100 yds. zero	-.8"	4.9"	7.0"	5.4"	0.0	-9.4"	-23.0"
TRAJ: 125 yds. zero	-.8"	6.7"	10.7"	11.1"	7.5"	0.0	-11.7"
TRAJ: 150 yds. zero	-.8"	8.7"	14.6"	16.9"	15.3"	9.7"	0.0

BALLISTICS TABLES: SHORT RANGE PISTOL

38 CALIBER (.358" Dia.) 158 GRAIN LEAD SEMI-WADCUTTER
SECTIONAL DENSITY: .176 BALLISTIC COEFFICIENT: .135

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1100	1049	1006	970	938	910	884
ENERGY (ft.-lbs.)	424	386	355	330	309	290	274
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.5"	-10.1"	-18.2"	-28.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.8"	-15.2"	-25.3"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.1"	-10.7"	-19.9"
TRAJ: 100 yds. zero	-.8"	2.5"	3.9"	3.1"	0.0	-5.5"	-13.7"
TRAJ: 125 yds. zero	-.8"	3.6"	6.1"	6.4"	4.4"	0.0	-7.0"
TRAJ: 150 yds. zero	-.8"	4.8"	8.4"	9.9"	9.1"	5.9"	0.0
VELOCITY (fps)	1050	1007	971	939	911	885	860
ENERGY (ft.-lbs.)	387	356	331	310	291	275	260
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-5.0"	-11.1"	-19.8"	-31.2"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.0"	-8.4"	-16.4"	-27.2"
TRAJ: 75 yds. zero	-.8"	1.7"	2.0"	0.0	-4.4"	-11.5"	-21.3"
TRAJ: 100 yds. zero	-.8"	2.8"	4.2"	3.3"	0.0	-5.9"	-14.6"
TRAJ: 125 yds. zero	-.8"	4.0"	6.6"	6.9"	4.8"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.2"	9.1"	10.6"	9.7"	6.2"	0.0
VELOCITY (fps)	1000	965	934	906	880	856	834
ENERGY (ft.-lbs.)	351	326	306	288	272	257	244
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.6"	-12.2"	-21.7"	-34.1"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.3"	-9.1"	-17.9"	-29.5"
TRAJ: 75 yds. zero	-.8"	1.9"	2.2"	0.0	-4.8"	-12.4"	-23.0"
TRAJ: 100 yds. zero	-.8"	3.1"	4.6"	3.6"	0.0	-6.4"	-15.8"
TRAJ: 125 yds. zero	-.8"	4.3"	7.1"	7.5"	5.1"	0.0	-8.1"
TRAJ: 150 yds. zero	-.8"	5.7"	9.8"	11.5"	10.5"	6.7"	0.0
VELOCITY (fps)	950	920	894	869	846	824	803
ENERGY (ft.-lbs.)	317	297	280	265	251	238	226
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.2"	-13.6"	-24.0"	-37.6"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.6"	-10.1"	-19.6"	-32.3"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.3"	-13.6"	-25.1"
TRAJ: 100 yds. zero	-.8"	3.4"	5.0"	4.0"	0.0	-7.0"	-17.2"
TRAJ: 125 yds. zero	-.8"	4.8"	7.8"	8.2"	5.6"	0.0	-8.8"
TRAJ: 150 yds. zero	-.8"	6.3"	10.8"	12.5"	11.4"	7.3"	0.0
VELOCITY (fps)	900	875	851	829	808	788	769
ENERGY (ft.-lbs.)	284	268	254	241	229	218	207
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.1"	-15.3"	-26.8"	-41.8"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.2"	-21.7"	-35.7"
TRAJ: 75 yds. zero	-.8"	2.4"	2.7"	0.0	-5.8"	-15.0"	-27.6"
TRAJ: 100 yds. zero	-.8"	3.8"	5.6"	4.4"	0.0	-7.7"	-18.9"
TRAJ: 125 yds. zero	-.8"	5.4"	8.7"	9.0"	6.2"	0.0	-9.6"
TRAJ: 150 yds. zero	-.8"	7.0"	11.9"	13.8"	12.6"	8.0"	0.0
VELOCITY (fps)	850	828	807	787	768	750	732
ENERGY (ft.-lbs.)	253	240	228	217	207	197	188
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.1"	-17.3"	-30.1"	-46.9"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.5"	-12.5"	-24.2"	-39.8"
TRAJ: 75 yds. zero	-.8"	2.7"	3.0"	0.0	-6.5"	-16.7"	-30.8"
TRAJ: 100 yds. zero	-.8"	4.3"	6.3"	4.9"	0.0	-8.6"	-21.0"
TRAJ: 125 yds. zero	-.8"	6.0"	9.7"	10.0"	6.8"	0.0	-10.7"
TRAJ: 150 yds. zero	-.8"	7.8"	13.3"	15.4"	14.0"	8.9"	0.0
VELOCITY (fps)	800	780	762	744	726	709	693
ENERGY (ft.-lbs.)	224	214	203	194	185	176	168
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.3"	-19.7"	-34.3"	-53.1"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.1"	-14.2"	-27.3"	-44.8"
TRAJ: 75 yds. zero	-.8"	3.1"	3.4"	0.0	-7.3"	-18.8"	-34.6"
TRAJ: 100 yds. zero	-.8"	4.9"	7.1"	5.5"	0.0	-9.6"	-23.6"
TRAJ: 125 yds. zero	-.8"	6.9"	10.9"	11.3"	7.7"	0.0	-12.0"
TRAJ: 150 yds. zero	-.8"	8.9"	14.9"	17.3"	15.7"	10.0"	0.0

38 CALIBER (.358" Dia.) 158 GRAIN LEAD SEMI-WADCUTTER HOLLOW POINT
SECTIONAL DENSITY: .176 BALLISTIC COEFFICIENT: .139

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1100	1050	1008	973	942	914	888
ENERGY (ft.-lbs.)	424	387	357	332	311	293	277
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.5"	-10.1"	-18.1"	-28.7"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.7"	-15.2"	-25.2"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.1"	-10.6"	-19.7"
TRAJ: 100 yds. zero	-.8"	2.5"	3.9"	3.1"	0.0	-5.5"	-13.6"
TRAJ: 125 yds. zero	-.8"	3.6"	6.1"	6.4"	4.4"	0.0	-7.0"
TRAJ: 150 yds. zero	-.8"	4.8"	8.4"	9.9"	9.1"	5.8"	0.0
VELOCITY (fps)	1050	1009	973	942	914	888	865
ENERGY (ft.-lbs.)	387	357	332	311	293	277	262
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-5.0"	-11.0"	-19.7"	-31.1"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.0"	-8.4"	-16.3"	-27.1"
TRAJ: 75 yds. zero	-.8"	1.7"	2.0"	0.0	-4.4"	-11.4"	-21.2"
TRAJ: 100 yds. zero	-.8"	2.8"	4.2"	3.3"	0.0	-5.9"	-14.5"
TRAJ: 125 yds. zero	-.8"	3.9"	6.5"	6.8"	4.7"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.2"	9.0"	10.6"	9.7"	6.2"	0.0
VELOCITY (fps)	1000	966	935	908	883	859	837
ENERGY (ft.-lbs.)	351	327	307	289	273	259	246
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.5"	-12.2"	-21.6"	-33.9"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-9.1"	-17.8"	-29.4"
TRAJ: 75 yds. zero	-.8"	1.8"	2.2"	0.0	-4.8"	-12.4"	-22.9"
TRAJ: 100 yds. zero	-.8"	3.0"	4.6"	3.6"	0.0	-6.4"	-15.7"
TRAJ: 125 yds. zero	-.8"	4.3"	7.1"	7.4"	5.1"	0.0	-8.0"
TRAJ: 150 yds. zero	-.8"	5.7"	9.8"	11.4"	10.5"	6.7"	0.0
VELOCITY (fps)	950	921	895	871	848	827	807
ENERGY (ft.-lbs.)	317	298	281	266	252	240	228
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.2"	-13.6"	-23.9"	-37.4"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.6"	-10.0"	-19.5"	-32.1"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.3"	-13.5"	-25.0"
TRAJ: 100 yds. zero	-.8"	3.4"	5.0"	3.9"	0.0	-7.0"	-17.1"
TRAJ: 125 yds. zero	-.8"	4.8"	7.8"	8.1"	5.6"	0.0	-8.7"
TRAJ: 150 yds. zero	-.8"	6.2"	10.7"	12.5"	11.4"	7.3"	0.0
VELOCITY (fps)	900	875	853	831	810	791	772
ENERGY (ft.-lbs.)	284	269	255	242	230	219	209
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.1"	-15.2"	-26.7"	-41.6"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.1"	-21.6"	-35.5"
TRAJ: 75 yds. zero	-.8"	2.4"	2.7"	0.0	-5.8"	-14.9"	-27.5"
TRAJ: 100 yds. zero	-.8"	3.8"	5.6"	4.4"	0.0	-7.7"	-18.8"
TRAJ: 125 yds. zero	-.8"	5.3"	8.6"	9.0"	6.1"	0.0	-9.6"
TRAJ: 150 yds. zero	-.8"	6.9"	11.8"	13.8"	12.5"	8.0"	0.0
VELOCITY (fps)	850	829	808	789	770	752	735
ENERGY (ft.-lbs.)	253	241	229	218	208	199	190
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.0"	-17.2"	-30.1"	-46.7"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.5"	-12.5"	-24.1"	-39.6"
TRAJ: 75 yds. zero	-.8"	2.7"	3.0"	0.0	-6.5"	-16.6"	-30.6"
TRAJ: 100 yds. zero	-.8"	4.3"	6.2"	4.9"	0.0	-8.5"	-20.9"
TRAJ: 125 yds. zero	-.8"	6.0"	9.7"	10.0"	6.8"	0.0	-10.7"
TRAJ: 150 yds. zero	-.8"	7.8"	13.2"	15.3"	13.9"	8.9"	0.0
VELOCITY (fps)	800	781	763	745	728	712	696
ENERGY (ft.-lbs.)	224	214	204	195	186	178	170
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.3"	-19.7"	-34.2"	-52.9"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.1"	-14.1"	-27.2"	-44.7"
TRAJ: 75 yds. zero	-.8"	3.1"	3.4"	0.0	-7.3"	-18.7"	-34.4"
TRAJ: 100 yds. zero	-.8"	4.9"	7.1"	5.5"	0.0	-9.6"	-23.5"
TRAJ: 125 yds. zero	-.8"	6.8"	10.9"	11.2"	7.7"	0.0	-12.0"
TRAJ: 150 yds. zero	-.8"	8.8"	14.9"	17.2"	15.6"	10.0"	0.0

10MM CALIBER (.400" Dia.) 155 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .138 BALLISTIC COEFFICIENT: .137

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1500	1393	1297	1213	1141	1083	1035
ENERGY (ft.-lbs.)	774	668	579	506	448	404	369
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.9"	-5.0"	-9.8"	-16.4"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.4"	-9.0"	-15.4"
TRAJ: 75 yds. zero	-.8"	0.6"	1.0"	0.0	-2.4"	-6.6"	-12.5"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.5"	-8.8"
TRAJ: 125 yds. zero	-.8"	2.0"	3.6"	3.9"	2.8"	0.0	-4.6"
TRAJ: 150 yds. zero	-.8"	2.7"	5.1"	6.3"	5.9"	3.9"	0.0
VELOCITY (fps)	1450	1348	1257	1178	1113	1060	1016
ENERGY (ft.-lbs.)	723	625	544	478	426	387	355
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.5"	-10.6"	-17.6"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.6"	-16.4"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.6"	-7.0"	-13.2"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	2.0"	0.0	-3.7"	-9.3"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.2"	3.0"	0.0	-4.9"
TRAJ: 150 yds. zero	-.8"	2.9"	5.5"	6.6"	6.2"	4.1"	0.0
VELOCITY (fps)	1400	1303	1218	1146	1086	1038	998
ENERGY (ft.-lbs.)	674	584	510	452	406	371	343
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.4"	-6.0"	-11.4"	-18.9"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-5.1"	-10.2"	-17.4"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.8"	-7.4"	-14.0"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0	-3.9"	-9.8"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.4"	3.1"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	3.1"	5.8"	7.0"	6.6"	4.3"	0.0
VELOCITY (fps)	1350	1259	1180	1114	1061	1017	980
ENERGY (ft.-lbs.)	627	545	479	427	387	356	330
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.7"	-6.6"	-12.4"	-20.2"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.4"	-10.9"	-18.5"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-3.0"	-7.9"	-14.8"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-4.1"	-10.4"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.3"	0.0	-5.4"
TRAJ: 150 yds. zero	-.8"	3.4"	6.2"	7.4"	6.9"	4.5"	0.0
VELOCITY (fps)	1300	1215	1143	1085	1037	997	962
ENERGY (ft.-lbs.)	582	508	450	405	370	342	319
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.0"	-7.2"	-13.3"	-21.7"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.0"	-5.8"	-11.7"	-19.7"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.2"	-8.3"	-15.7"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.4"	0.0	-4.4"	-10.9"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.0"	3.5"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.6"	6.6"	7.8"	7.3"	4.7"	0.0
VELOCITY (fps)	1250	1172	1108	1056	1013	976	945
ENERGY (ft.-lbs.)	538	473	423	384	353	328	307
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.3"	-7.8"	-14.4"	-23.2"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.2"	-12.4"	-20.9"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.4"	-8.9"	-16.6"
TRAJ: 100 yds. zero	-.8"	2.0"	3.1"	2.5"	0.0	-4.6"	-11.5"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.3"	3.7"	0.0	-5.9"
TRAJ: 150 yds. zero	-.8"	3.9"	7.0"	8.3"	7.7"	5.0"	0.0
VELOCITY (fps)	1200	1131	1074	1028	990	956	926
ENERGY (ft.-lbs.)	496	440	397	364	337	315	295
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.7"	-8.5"	-15.5"	-24.9"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.3"	-6.7"	-13.3"	-22.2"
TRAJ: 75 yds. zero	-.8"	1.2"	1.6"	0.0	-3.6"	-9.4"	-17.5"
TRAJ: 100 yds. zero	-.8"	2.1"	3.3"	2.7"	0.0	-4.9"	-12.1"
TRAJ: 125 yds. zero	-.8"	3.1"	5.3"	5.6"	3.9"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.1"	7.4"	8.8"	8.1"	5.2"	0.0
VELOCITY (fps)	1150	1090	1041	1000	966	935	907
ENERGY (ft.-lbs.)	455	409	373	344	321	301	283
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-4.1"	-9.2"	-16.7"	-26.7"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.2"	-14.2"	-23.6"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.8"	-10.0"	-18.6"
TRAJ: 100 yds. zero	-.8"	2.3"	3.6"	2.9"	0.0	-5.2"	-12.8"
TRAJ: 125 yds. zero	-.8"	3.3"	5.7"	6.0"	4.2"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.4"	7.9"	9.3"	8.6"	5.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1100	1049	1007	972	940	912	886
ENERGY (ft.-lbs.)	416	379	349	325	304	286	270
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.5"	-10.1"	-18.1"	-28.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.7"	-15.2"	-25.2"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.1"	-10.7"	-19.8"
TRAJ: 100 yds. zero	-.8"	2.5"	3.9"	3.1"	0.0	-5.5"	-13.6"
TRAJ: 125 yds. zero	-.8"	3.6"	6.1"	6.4"	4.4"	0.0	-7.0"
TRAJ: 150 yds. zero	-.8"	4.8"	8.4"	9.9"	9.1"	5.8"	0.0
VELOCITY (fps)	1050	1008	972	941	912	887	863
ENERGY (ft.-lbs.)	379	350	325	304	286	270	256
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-5.0"	-11.0"	-19.7"	-31.2"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.0"	-8.4"	-16.4"	-27.1"
TRAJ: 75 yds. zero	-.8"	1.7"	2.0"	0.0	-4.4"	-11.5"	-21.2"
TRAJ: 100 yds. zero	-.8"	2.8"	4.2"	3.3"	0.0	-5.9"	-14.6"
TRAJ: 125 yds. zero	-.8"	3.9"	6.6"	6.9"	4.7"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.2"	9.0"	10.6"	9.7"	6.2"	0.0
VELOCITY (fps)	1000	965	935	907	881	858	836
ENERGY (ft.-lbs.)	344	321	301	283	267	253	240
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.5"	-12.2"	-21.6"	-34.0"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-9.1"	-17.8"	-29.4"
TRAJ: 75 yds. zero	-.8"	1.8"	2.2"	0.0	-4.8"	-12.4"	-22.9"
TRAJ: 100 yds. zero	-.8"	3.0"	4.6"	3.6"	0.0	-6.4"	-15.7"
TRAJ: 125 yds. zero	-.8"	4.3"	7.1"	7.4"	5.1"	0.0	-8.1"
TRAJ: 150 yds. zero	-.8"	5.7"	9.8"	11.5"	10.5"	6.7"	0.0

10MM CALIBER (.400" Dia.) 180 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .161 BALLISTIC COEFFICIENT: .164

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1400	1318	1244	1180	1124	1077	1038
ENERGY (ft.-lbs.)	783	694	619	556	505	464	430
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.3"	-5.7"	-10.8"	-17.8"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.8"	-9.7"	-16.5"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.6"	-7.0"	-13.2"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	2.0"	0.0	-3.7"	-9.3"
TRAJ: 125 yds. zero	-.8"	2.2"	3.9"	4.2"	3.0"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	3.0"	5.5"	6.6"	6.2"	4.0"	0.0
VELOCITY (fps)	1350	1273	1204	1145	1095	1053	1017
ENERGY (ft.-lbs.)	728	648	580	524	479	443	413
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.6"	-6.3"	-11.8"	-19.2"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.2"	-10.4"	-17.6"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.8"	-7.5"	-14.1"
TRAJ: 100 yds. zero	-.8"	1.6"	2.6"	2.1"	0.0	-3.9"	-9.8"
TRAJ: 125 yds. zero	-.8"	2.4"	4.2"	4.5"	3.1"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	3.2"	5.9"	7.0"	6.5"	4.2"	0.0
VELOCITY (fps)	1300	1228	1166	1112	1067	1029	996
ENERGY (ft.-lbs.)	675	603	543	494	455	423	397
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.9"	-6.9"	-12.8"	-20.7"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.6"	-11.2"	-18.8"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.0"	-8.0"	-14.9"
TRAJ: 100 yds. zero	-.8"	1.7"	2.8"	2.3"	0.0	-4.2"	-10.4"
TRAJ: 125 yds. zero	-.8"	2.6"	4.5"	4.8"	3.3"	0.0	-5.4"
TRAJ: 150 yds. zero	-.8"	3.4"	6.3"	7.5"	6.9"	4.5"	0.0
VELOCITY (fps)	1250	1184	1128	1080	1040	1006	976
ENERGY (ft.-lbs.)	624	561	508	467	433	405	381
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.2"	-7.5"	-13.8"	-22.2"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.0"	-11.9"	-20.0"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.2"	-8.5"	-15.8"
TRAJ: 100 yds. zero	-.8"	1.9"	3.0"	2.4"	0.0	-4.4"	-11.0"
TRAJ: 125 yds. zero	-.8"	2.8"	4.8"	5.1"	3.5"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.7"	6.7"	7.9"	7.3"	4.7"	0.0
VELOCITY (fps)	1200	1141	1092	1050	1014	983	956
ENERGY (ft.-lbs.)	575	521	476	440	411	386	365
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.6"	-8.2"	-15.0"	-23.9"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.3"	-6.5"	-12.8"	-21.3"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.5"	-9.0"	-16.8"
TRAJ: 100 yds. zero	-.8"	2.1"	3.2"	2.6"	0.0	-4.7"	-11.6"
TRAJ: 125 yds. zero	-.8"	3.0"	5.1"	5.4"	3.8"	0.0	-6.0"
TRAJ: 150 yds. zero	-.8"	4.0"	7.1"	8.4"	7.8"	5.0"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1150	1099	1056	1020	988	960	935
ENERGY (ft.-lbs.)	528	483	446	415	390	368	349
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-9.0"	-16.2"	-25.8"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-7.0"	-13.7"	-22.8"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.7"	-9.6"	-17.9"
TRAJ: 100 yds. zero	-.8"	2.2"	3.5"	2.8"	0.0	-5.0"	-12.3"
TRAJ: 125 yds. zero	-.8"	3.2"	5.5"	5.8"	4.0"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.3"	7.6"	9.0"	8.2"	5.3"	0.0
VELOCITY (fps)	1100	1057	1020	989	960	935	912
ENERGY (ft.-lbs.)	484	446	416	391	369	349	332
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.4"	-9.8"	-17.6"	-27.9"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.5"	-14.7"	-24.4"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.0"	-10.3"	-19.1"
TRAJ: 100 yds. zero	-.8"	2.5"	3.8"	3.0"	0.0	-5.3"	-13.1"
TRAJ: 125 yds. zero	-.8"	3.5"	5.9"	6.2"	4.3"	0.0	-6.7"
TRAJ: 150 yds. zero	-.8"	4.6"	8.1"	9.6"	8.8"	5.6"	0.0
VELOCITY (fps)	1050	1014	983	956	931	908	886
ENERGY (ft.-lbs.)	441	411	386	365	346	329	314
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.9"	-10.8"	-19.2"	-30.3"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-2.9"	-8.2"	-15.9"	-26.3"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.3"	-11.1"	-20.5"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.2"	0.0	-5.7"	-14.1"
TRAJ: 125 yds. zero	-.8"	3.8"	6.4"	6.7"	4.6"	0.0	-7.2"
TRAJ: 150 yds. zero	-.8"	5.0"	8.8"	10.3"	9.4"	6.0"	0.0
VELOCITY (fps)	1000	971	944	920	898	877	857
ENERGY (ft.-lbs.)	400	376	356	338	322	307	294
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.9"	-21.1"	-33.1"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-8.9"	-17.4"	-28.6"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.7"	-12.1"	-22.3"
TRAJ: 100 yds. zero	-.8"	3.0"	4.5"	3.5"	0.0	-6.2"	-15.2"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.2"	5.0"	0.0	-7.8"
TRAJ: 150 yds. zero	-.8"	5.5"	9.5"	11.1"	10.1"	6.5"	0.0
VELOCITY (fps)	950	925	903	882	862	843	825
ENERGY (ft.-lbs.)	361	342	326	311	297	284	272
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.3"	-23.4"	-36.6"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.9"	-19.1"	-31.4"
TRAJ: 75 yds. zero	-.8"	2.0"	2.4"	0.0	-5.1"	-13.2"	-24.3"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.9"	0.0	-6.8"	-16.6"
TRAJ: 125 yds. zero	-.8"	4.7"	7.6"	7.9"	5.4"	0.0	-8.5"
TRAJ: 150 yds. zero	-.8"	6.1"	10.5"	12.2"	11.1"	7.1"	0.0
VELOCITY (fps)	900	879	859	841	823	806	789
ENERGY (ft.-lbs.)	324	309	295	282	271	259	249
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.0"	-15.0"	-26.2"	-40.8"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-11.0"	-21.2"	-34.7"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.7"	-14.6"	-26.9"
TRAJ: 100 yds. zero	-.8"	3.7"	5.5"	4.3"	0.0	-7.5"	-18.3"
TRAJ: 125 yds. zero	-.8"	5.2"	8.5"	8.8"	6.0"	0.0	-9.3"
TRAJ: 150 yds. zero	-.8"	6.8"	11.6"	13.4"	12.2"	7.8"	0.0

10MM CALIBER (.400" Dia.) 200 GRAIN FULL METAL JACKET FLAT POINT
SECTIONAL DENSITY: .179 BALLISTIC COEFFICIENT: .182

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1300	1235	1177	1127	1084	1047	1015
ENERGY (ft.-lbs.)	750	677	615	564	522	487	458
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.7"	-12.5"	-20.2"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.5"	-10.9"	-18.3"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.0"	-7.8"	-14.5"
TRAJ: 100 yds. zero	-.8"	1.7"	2.7"	2.2"	0.0	-4.1"	-10.1"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.2"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.4"	6.1"	7.3"	6.7"	4.3"	0.0
VELOCITY (fps)	1250	1190	1138	1094	1056	1023	993
ENERGY (ft.-lbs.)	694	629	575	531	495	464	438
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.4"	-13.5"	-21.7"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.9"	-11.7"	-19.5"
TRAJ: 75 yds. zero	-.8"	1.0"	1.4"	0.0	-3.2"	-8.3"	-15.5"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.4"	0.0	-4.3"	-10.7"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.0"	3.5"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.7"	7.1"	4.6"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1200	1147	1101	1062	1028	998	972
ENERGY (ft.-lbs.)	639	584	538	500	469	442	419
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.5"	-8.1"	-14.7"	-23.4"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.5"	-20.9"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.4"	-8.8"	-16.5"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.6"	-11.4"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.3"	3.7"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	3.9"	7.0"	8.2"	7.6"	4.9"	0.0
VELOCITY (fps)	1150	1104	1064	1030	1000	973	949
ENERGY (ft.-lbs.)	587	541	503	471	444	421	400
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.8"	-15.9"	-25.3"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.9"	-13.5"	-22.4"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.5"	-17.5"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.9"	-12.1"
TRAJ: 125 yds. zero	-.8"	3.2"	5.4"	5.7"	3.9"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.2"	7.5"	8.8"	8.1"	5.2"	0.0
VELOCITY (fps)	1100	1061	1027	998	971	947	925
ENERGY (ft.-lbs.)	537	500	469	442	419	398	380
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.7"	-17.3"	-27.4"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.4"	-14.5"	-24.0"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.1"	-18.8"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.2"	-12.9"
TRAJ: 125 yds. zero	-.8"	3.5"	5.8"	6.1"	4.2"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.6"	8.0"	9.4"	8.6"	5.5"	0.0
VELOCITY (fps)	1050	1018	989	964	940	919	899
ENERGY (ft.-lbs.)	490	460	434	412	393	375	359
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.7"	-19.0"	-29.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.9"	-8.1"	-15.7"	-25.9"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.9"	-20.2"
TRAJ: 100 yds. zero	-.8"	2.7"	4.0"	3.2"	0.0	-5.6"	-13.8"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.6"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	5.0"	8.6"	10.1"	9.2"	5.9"	0.0
VELOCITY (fps)	1000	973	949	927	907	887	869
ENERGY (ft.-lbs.)	444	421	400	382	365	350	335
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.8"	-20.9"	-32.7"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.2"	-8.8"	-17.2"	-28.2"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.9"	-21.9"
TRAJ: 100 yds. zero	-.8"	3.0"	4.4"	3.5"	0.0	-6.1"	-15.0"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.1"	4.9"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	5.4"	9.4"	11.0"	10.0"	6.4"	0.0
VELOCITY (fps)	950	928	907	888	870	852	836
ENERGY (ft.-lbs.)	401	382	365	350	336	322	310
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.2"	-23.2"	-36.2"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.7"	-18.9"	-31.0"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.1"	-13.0"	-24.0"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.8"	0.0	-6.7"	-16.4"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.8"	5.4"	0.0	-8.3"
TRAJ: 150 yds. zero	-.8"	6.0"	10.3"	12.0"	10.9"	6.9"	0.0
VELOCITY (fps)	900	881	863	846	830	814	799
ENERGY (ft.-lbs.)	360	345	331	318	306	294	283
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.8"	-26.0"	-40.3"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.9"	-21.0"	-34.3"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.4"	-26.5"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.4"	-18.0"
TRAJ: 125 yds. zero	-.8"	5.2"	8.4"	8.7"	5.9"	0.0	-9.2"
TRAJ: 150 yds. zero	-.8"	6.7"	11.4"	13.2"	12.0"	7.6"	0.0
VELOCITY (fps)	850	834	818	803	788	774	760
ENERGY (ft.-lbs.)	321	309	297	286	276	266	256
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.8"	-29.3"	-45.3"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.2"	-23.5"	-38.4"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-16.1"	-29.5"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.7"	0.0	-8.2"	-20.1"
TRAJ: 125 yds. zero	-.8"	5.9"	9.4"	9.7"	6.6"	0.0	-10.2"
TRAJ: 150 yds. zero	-.8"	7.6"	12.8"	14.8"	13.4"	8.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	800	785	771	758	744	731	718
ENERGY (ft.-lbs.)	284	274	264	255	246	237	229
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.1"	-19.2"	-33.3"	-51.4"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.8"	-26.5"	-43.3"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.1"	-18.2"	-33.3"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.3"	0.0	-9.2"	-22.6"
TRAJ: 125 yds. zero	-.8"	6.7"	10.6"	10.9"	7.4"	0.0	-11.5"
TRAJ: 150 yds. zero	-.8"	8.6"	14.4"	16.6"	15.1"	9.6"	0.0

10MM CALIBER (.400" Dia.) 200 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .179 BALLISTIC COEFFICIENT: .199

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1300	1240	1187	1139	1098	1062	1031
ENERGY (ft.-lbs.)	750	683	625	576	535	501	472
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.6"	-12.2"	-19.8"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.4"	-10.7"	-17.9"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.9"	-7.6"	-14.2"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-4.0"	-9.9"
TRAJ: 125 yds. zero	-.8"	2.4"	4.3"	4.6"	3.2"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	3.3"	6.0"	7.1"	6.6"	4.2"	0.0
VELOCITY (fps)	1250	1195	1147	1105	1068	1036	1008
ENERGY (ft.-lbs.)	694	634	584	542	506	477	451
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.2"	-13.3"	-21.3"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.8"	-11.5"	-19.2"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.1"	-8.1"	-15.2"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.3"	0.0	-4.2"	-10.5"
TRAJ: 125 yds. zero	-.8"	2.7"	4.6"	4.9"	3.4"	0.0	-5.4"
TRAJ: 150 yds. zero	-.8"	3.6"	6.4"	7.6"	7.0"	4.5"	0.0
VELOCITY (fps)	1200	1151	1108	1071	1039	1010	985
ENERGY (ft.-lbs.)	639	588	545	509	479	453	431
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-7.9"	-14.4"	-23.1"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.3"	-12.3"	-20.5"
TRAJ: 75 yds. zero	-.8"	1.1"	1.5"	0.0	-3.3"	-8.7"	-16.2"
TRAJ: 100 yds. zero	-.8"	2.0"	3.1"	2.5"	0.0	-4.5"	-11.2"
TRAJ: 125 yds. zero	-.8"	2.9"	4.9"	5.2"	3.6"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.8"	6.8"	8.1"	7.4"	4.8"	0.0
VELOCITY (fps)	1150	1107	1070	1038	1010	984	961
ENERGY (ft.-lbs.)	587	544	509	479	453	430	410
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.8"	-8.7"	-15.7"	-24.9"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.8"	-13.3"	-22.0"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.3"	-17.3"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.8"	-11.9"
TRAJ: 125 yds. zero	-.8"	3.1"	5.3"	5.6"	3.9"	0.0	-6.1"
TRAJ: 150 yds. zero	-.8"	4.2"	7.3"	8.6"	7.9"	5.1"	0.0
VELOCITY (fps)	1100	1064	1033	1005	980	957	936
ENERGY (ft.-lbs.)	537	503	473	448	426	407	389
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.6"	-17.1"	-27.0"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.3"	-14.3"	-23.7"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.0"	-18.5"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.2"	-12.7"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.0"	4.1"	0.0	-6.5"
TRAJ: 150 yds. zero	-.8"	4.5"	7.9"	9.2"	8.5"	5.4"	0.0
VELOCITY (fps)	1050	1020	994	970	948	928	909
ENERGY (ft.-lbs.)	490	462	439	418	399	382	367
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.6"	-18.8"	-29.5"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-8.0"	-15.5"	-25.6"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.8"	-19.9"
TRAJ: 100 yds. zero	-.8"	2.6"	4.0"	3.2"	0.0	-5.6"	-13.6"
TRAJ: 125 yds. zero	-.8"	3.8"	6.2"	6.5"	4.4"	0.0	-7.0"
TRAJ: 150 yds. zero	-.8"	4.9"	8.5"	10.0"	9.1"	5.8"	0.0
VELOCITY (fps)	1000	976	953	933	913	895	878
ENERGY (ft.-lbs.)	444	423	403	386	370	356	342
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.3"	-11.7"	-20.7"	-32.3"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.8"	-17.0"	-27.9"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.8"	-21.6"
TRAJ: 100 yds. zero	-.8"	2.9"	4.4"	3.4"	0.0	-6.0"	-14.8"
TRAJ: 125 yds. zero	-.8"	4.1"	6.8"	7.1"	4.8"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.4"	9.3"	10.8"	9.8"	6.3"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	950	930	911	893	876	859	844
ENERGY (ft.-lbs.)	401	384	368	354	340	328	316
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.0"	-13.1"	-23.0"	-35.8"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.7"	-18.7"	-30.7"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.0"	-12.9"	-23.7"
TRAJ: 100 yds. zero	-.8"	3.3"	4.8"	3.8"	0.0	-6.6"	-16.2"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.7"	5.3"	0.0	-8.2"
TRAJ: 150 yds. zero	-.8"	6.0"	10.2"	11.9"	10.8"	6.9"	0.0
VELOCITY (fps)	900	883	866	850	835	821	807
ENERGY (ft.-lbs.)	360	346	333	321	310	299	289
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.8"	-25.7"	-40.0"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.8"	-20.8"	-34.0"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.3"	-26.2"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.3"	-17.8"
TRAJ: 125 yds. zero	-.8"	5.1"	8.3"	8.6"	5.8"	0.0	-9.1"
TRAJ: 150 yds. zero	-.8"	6.7"	11.3"	13.1"	11.9"	7.6"	0.0
VELOCITY (fps)	850	835	820	806	793	780	767
ENERGY (ft.-lbs.)	321	310	299	289	279	270	261
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.7"	-29.1"	-45.0"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.1"	-23.3"	-38.0"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-16.0"	-29.3"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.7"	0.0	-8.1"	-19.9"
TRAJ: 125 yds. zero	-.8"	5.8"	9.3"	9.6"	6.5"	0.0	-10.1"
TRAJ: 150 yds. zero	-.8"	7.5"	12.7"	14.6"	13.2"	8.4"	0.0
VELOCITY (fps)	800	787	774	761	749	737	725
ENERGY (ft.-lbs.)	284	275	266	257	249	241	233
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.0"	-19.1"	-33.1"	-51.1"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.7"	-26.3"	-42.9"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.1"	-18.0"	-33.0"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.3"	0.0	-9.2"	-22.4"
TRAJ: 125 yds. zero	-.8"	6.6"	10.5"	10.8"	7.4"	0.0	-11.3"
TRAJ: 150 yds. zero	-.8"	8.5"	14.3"	16.5"	14.9"	9.5"	0.0

41 CALIBER (.410" Dia.) 210 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .178 BALLISTIC COEFFICIENT: .182

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1700	1608	1521	1438	1361	1290	1226
ENERGY (ft.-lbs.)	1347	1205	1078	964	864	776	701
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.1"	-6.3"	-10.8"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.0"	-6.2"	-10.6"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.6"	-8.7"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.4"	-6.2"
TRAJ: 125 yds. zero	-.8"	1.3"	2.5"	2.7"	2.0"	0.0	-3.3"
TRAJ: 150 yds. zero	-.8"	1.8"	3.5"	4.4"	4.1"	2.7"	0.0
VELOCITY (fps)	1650	1560	1476	1396	1322	1255	1195
ENERGY (ft.-lbs.)	1269	1135	1015	909	815	734	666
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.2"	-3.4"	-6.8"	-11.7"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.2"	-6.6"	-11.4"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.9"	-9.3"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.4"	0.0	-2.6"	-6.6"
TRAJ: 125 yds. zero	-.8"	1.4"	2.6"	2.9"	2.1"	0.0	-3.5"
TRAJ: 150 yds. zero	-.8"	1.9"	3.8"	4.6"	4.4"	2.9"	0.0
VELOCITY (fps)	1600	1513	1431	1355	1284	1221	1165
ENERGY (ft.-lbs.)	1194	1067	955	856	769	695	633
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.4"	-3.8"	-7.5"	-12.6"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.5"	-7.1"	-12.2"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-1.9"	-5.2"	-9.9"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.5"	0.0	-2.8"	-7.0"
TRAJ: 125 yds. zero	-.8"	1.5"	2.8"	3.1"	2.2"	0.0	-3.7"
TRAJ: 150 yds. zero	-.8"	2.1"	4.1"	5.0"	4.7"	3.1"	0.0
VELOCITY (fps)	1550	1466	1387	1314	1247	1188	1136
ENERGY (ft.-lbs.)	1120	1002	897	805	726	658	602
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.2"	-8.1"	-13.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.7"	-7.6"	-13.0"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.6"	-10.6"
TRAJ: 100 yds. zero	-.8"	1.0"	1.9"	1.6"	0.0	-3.0"	-7.5"
TRAJ: 125 yds. zero	-.8"	1.6"	3.0"	3.3"	2.4"	0.0	-3.9"
TRAJ: 150 yds. zero	-.8"	2.3"	4.3"	5.3"	5.0"	3.3"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1500	1419	1343	1274	1212	1157	1110
ENERGY (ft.-lbs.)	1049	939	841	757	685	624	574
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.8"	-4.6"	-8.9"	-14.8"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.0"	-8.2"	-14.0"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-5.9"	-11.3"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.2"	-7.9"
TRAJ: 125 yds. zero	-.8"	1.8"	3.3"	3.6"	2.5"	0.0	-4.1"
TRAJ: 150 yds. zero	-.8"	2.5"	4.7"	5.6"	5.3"	3.5"	0.0
VELOCITY (fps)	1450	1372	1300	1235	1178	1127	1084
ENERGY (ft.-lbs.)	980	878	788	712	646	592	548
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.0"	-5.1"	-9.7"	-16.0"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.3"	-8.8"	-15.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.4"	-6.4"	-12.0"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.4"	-8.4"
TRAJ: 125 yds. zero	-.8"	1.9"	3.5"	3.8"	2.7"	0.0	-4.4"
TRAJ: 150 yds. zero	-.8"	2.7"	5.0"	6.0"	5.6"	3.7"	0.0
VELOCITY (fps)	1400	1326	1258	1198	1145	1099	1060
ENERGY (ft.-lbs.)	914	820	738	669	611	563	524
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.6"	-10.5"	-17.3"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.5"	-16.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.1"	0.0	-2.6"	-6.8"	-12.8"
TRAJ: 100 yds. zero	-.8"	1.4"	2.3"	1.9"	0.0	-3.6"	-9.0"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.1"	2.9"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.9"	5.3"	6.4"	6.0"	3.9"	0.0
VELOCITY (fps)	1350	1280	1217	1162	1114	1073	1037
ENERGY (ft.-lbs.)	850	764	691	629	578	536	502
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.1"	-11.5"	-18.7"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.7"	-5.1"	-10.1"	-17.1"
TRAJ: 75 yds. zero	-.8"	0.8"	1.2"	0.0	-2.8"	-7.3"	-13.7"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0	-3.8"	-9.5"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.4"	3.1"	0.0	-4.9"
TRAJ: 150 yds. zero	-.8"	3.1"	5.7"	6.8"	6.3"	4.1"	0.0
VELOCITY (fps)	1300	1235	1177	1127	1084	1047	1015
ENERGY (ft.-lbs.)	788	711	646	592	548	511	480
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.7"	-12.5"	-20.2"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.5"	-10.9"	-18.3"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.0"	-7.8"	-14.5"
TRAJ: 100 yds. zero	-.8"	1.7"	2.7"	2.2"	0.0	-4.1"	-10.1"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.2"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.4"	6.1"	7.3"	6.7"	4.3"	0.0
VELOCITY (fps)	1250	1190	1138	1094	1056	1023	993
ENERGY (ft.-lbs.)	728	661	604	558	519	487	460
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.4"	-13.5"	-21.7"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.9"	-11.7"	-19.5"
TRAJ: 75 yds. zero	-.8"	1.0"	1.4"	0.0	-3.2"	-8.3"	-15.5"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.4"	0.0	-4.3"	-10.7"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.0"	3.5"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.7"	7.1"	4.6"	0.0
VELOCITY (fps)	1200	1147	1101	1062	1028	998	972
ENERGY (ft.-lbs.)	671	613	565	525	492	465	440
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.5"	-8.1"	-14.7"	-23.4"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.5"	-20.9"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.4"	-8.8"	-16.5"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.6"	-11.4"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.3"	3.7"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	3.9"	7.0"	8.2"	7.6"	4.9"	0.0
VELOCITY (fps)	1150	1104	1064	1030	1000	973	949
ENERGY (ft.-lbs.)	617	568	528	494	466	442	420
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.8"	-15.9"	-25.3"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.9"	-13.5"	-22.4"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.5"	-17.5"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.9"	-12.1"
TRAJ: 125 yds. zero	-.8"	3.2"	5.4"	5.7"	3.9"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.2"	7.5"	8.8"	8.1"	5.2"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1100	1061	1027	998	971	947	925
ENERGY (ft.-lbs.)	564	525	492	464	440	418	399
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.7"	-17.3"	-27.4"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.4"	-14.5"	-24.0"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.1"	-18.8"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.2"	-12.9"
TRAJ: 125 yds. zero	-.8"	3.5"	5.8"	6.1"	4.2"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.6"	8.0"	9.4"	8.6"	5.5"	0.0
VELOCITY (fps)	1050	1018	989	964	940	919	899
ENERGY (ft.-lbs.)	514	483	456	433	412	394	377
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.7"	-19.0"	-29.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.9"	-8.1"	-15.7"	-25.9"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.9"	-20.2"
TRAJ: 100 yds. zero	-.8"	2.7"	4.0"	3.2"	0.0	-5.6"	-13.8"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.6"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	5.0"	8.6"	10.1"	9.2"	5.9"	0.0
VELOCITY (fps)	1000	973	949	927	907	887	869
ENERGY (ft.-lbs.)	466	442	420	401	383	367	352
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.8"	-20.9"	-32.7"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.2"	-8.8"	-17.2"	-28.2"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.9"	-21.9"
TRAJ: 100 yds. zero	-.8"	3.0"	4.4"	3.5"	0.0	-6.1"	-15.0"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.1"	4.9"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	5.4"	9.4"	11.0"	10.0"	6.4"	0.0
VELOCITY (fps)	950	928	907	888	870	852	836
ENERGY (ft.-lbs.)	421	401	384	367	352	339	326
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.2"	-23.2"	-36.2"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.7"	-18.9"	-31.0"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.1"	-13.0"	-24.0"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.8"	0.0	-6.7"	-16.4"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.8"	5.4"	0.0	-8.3"
TRAJ: 150 yds. zero	-.8"	6.0"	10.3"	12.0"	10.9"	6.9"	0.0
VELOCITY (fps)	900	881	863	846	830	814	799
ENERGY (ft.-lbs.)	378	362	347	334	321	309	298
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.8"	-26.0"	-40.3"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.9"	-21.0"	-34.3"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.4"	-26.5"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.4"	-18.0"
TRAJ: 125 yds. zero	-.8"	5.2"	8.4"	8.7"	5.9"	0.0	-9.2"
TRAJ: 150 yds. zero	-.8"	6.7"	11.4"	13.2"	12.0"	7.6"	0.0
VELOCITY (fps)	850	834	818	803	788	774	760
ENERGY (ft.-lbs.)	337	324	312	300	289	279	269
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.8"	-29.3"	-45.3"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.2"	-23.5"	-38.4"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-16.1"	-29.5"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.7"	0.0	-8.2"	-20.1"
TRAJ: 125 yds. zero	-.8"	5.9"	9.4"	9.7"	6.6"	0.0	-10.2"
TRAJ: 150 yds. zero	-.8"	7.6"	12.8"	14.8"	13.4"	8.5"	0.0
VELOCITY (fps)	800	785	771	758	744	731	718
ENERGY (ft.-lbs.)	298	288	277	268	258	249	241
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.1"	-19.2"	-33.3"	-51.4"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.8"	-26.5"	-43.3"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.1"	-18.2"	-33.3"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.3"	0.0	-9.2"	-22.6"
TRAJ: 125 yds. zero	-.8"	6.7"	10.6"	10.9"	7.4"	0.0	-11.5"
TRAJ: 150 yds. zero	-.8"	8.6"	14.4"	16.6"	15.1"	9.6"	0.0
VELOCITY (fps)	750	737	724	711	699	687	676
ENERGY (ft.-lbs.)	262	253	244	236	228	220	213
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.5"	-22.2"	-38.2"	-58.9"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.8"	-30.2"	-49.3"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.1"	-20.7"	-37.8"
TRAJ: 100 yds. zero	-.8"	5.5"	7.9"	6.1"	0.0	-10.5"	-25.7"
TRAJ: 125 yds. zero	-.8"	7.6"	12.1"	12.4"	8.4"	0.0	-13.0"
TRAJ: 150 yds. zero	-.8"	9.8"	16.4"	18.9"	17.1"	10.9"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	700	688	676	665	653	642	632
ENERGY (ft.-lbs.)	228	221	213	206	199	192	186
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.3"	-25.8"	-44.3"	-68.1"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.6"	-18.2"	-34.8"	-56.7"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.3"	-23.8"	-43.4"
TRAJ: 100 yds. zero	-.8"	6.4"	9.1"	7.0"	0.0	-12.1"	-29.4"
TRAJ: 125 yds. zero	-.8"	8.9"	13.9"	14.3"	9.7"	0.0	-14.9"
TRAJ: 150 yds. zero	-.8"	11.3"	18.9"	21.7"	19.6"	12.4"	0.0

41 CALIBER (.410" Dia.) 210 GRAIN JACKETED TRUNCATED CONE SILHOUETTE
SECTIONAL DENSITY: .178 BALLISTIC COEFFICIENT: .187

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1700	1610	1525	1445	1369	1299	1236
ENERGY (ft.-lbs.)	1347	1209	1084	973	874	787	712
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.0"	-6.2"	-10.7"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-2.9"	-6.1"	-10.5"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.5"	-8.6"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.4"	-6.1"
TRAJ: 125 yds. zero	-.8"	1.2"	2.4"	2.7"	1.9"	0.0	-3.2"
TRAJ: 150 yds. zero	-.8"	1.8"	3.5"	4.3"	4.1"	2.7"	0.0
VELOCITY (fps)	1650	1563	1480	1402	1330	1264	1204
ENERGY (ft.-lbs.)	1269	1139	1021	917	825	744	676
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.2"	-3.4"	-6.8"	-11.6"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.2"	-6.6"	-11.3"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.8"	-9.2"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.3"	0.0	-2.6"	-6.5"
TRAJ: 125 yds. zero	-.8"	1.4"	2.6"	2.9"	2.1"	0.0	-3.4"
TRAJ: 150 yds. zero	-.8"	1.9"	3.8"	4.6"	4.3"	2.9"	0.0
VELOCITY (fps)	1600	1515	1435	1361	1292	1229	1173
ENERGY (ft.-lbs.)	1194	1070	960	863	778	704	642
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-3.7"	-7.4"	-12.5"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.4"	-7.0"	-12.1"
TRAJ: 75 yds. zero	-.8"	0.4"	0.8"	0.0	-1.9"	-5.2"	-9.8"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.4"	0.0	-2.7"	-6.9"
TRAJ: 125 yds. zero	-.8"	1.5"	2.8"	3.1"	2.2"	0.0	-3.6"
TRAJ: 150 yds. zero	-.8"	2.1"	4.0"	4.9"	4.6"	3.0"	0.0
VELOCITY (fps)	1550	1468	1391	1320	1254	1196	1144
ENERGY (ft.-lbs.)	1120	1005	902	812	733	667	610
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.5"	-4.1"	-8.1"	-13.6"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.7"	-7.6"	-12.9"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.5"	-10.5"
TRAJ: 100 yds. zero	-.8"	1.0"	1.9"	1.5"	0.0	-2.9"	-7.4"
TRAJ: 125 yds. zero	-.8"	1.6"	3.0"	3.3"	2.3"	0.0	-3.9"
TRAJ: 150 yds. zero	-.8"	2.3"	4.3"	5.2"	4.9"	3.2"	0.0
VELOCITY (fps)	1500	1421	1347	1279	1218	1164	1117
ENERGY (ft.-lbs.)	1049	941	846	763	692	632	581
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.7"	-4.5"	-8.8"	-14.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.0"	-8.1"	-13.9"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-5.9"	-11.2"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.1"	-7.9"
TRAJ: 125 yds. zero	-.8"	1.8"	3.2"	3.5"	2.5"	0.0	-4.1"
TRAJ: 150 yds. zero	-.8"	2.4"	4.6"	5.6"	5.2"	3.4"	0.0
VELOCITY (fps)	1450	1374	1304	1240	1183	1134	1091
ENERGY (ft.-lbs.)	980	880	793	717	653	599	555
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.0"	-5.0"	-9.6"	-15.9"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.3"	-8.7"	-14.8"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.4"	-6.3"	-11.9"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.3"	-8.4"
TRAJ: 125 yds. zero	-.8"	1.9"	3.5"	3.8"	2.7"	0.0	-4.4"
TRAJ: 150 yds. zero	-.8"	2.6"	4.9"	6.0"	5.6"	3.6"	0.0
VELOCITY (fps)	1400	1328	1262	1202	1150	1105	1066
ENERGY (ft.-lbs.)	914	822	742	674	617	569	530
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.5"	-10.5"	-17.2"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.4"	-15.9"
TRAJ: 75 yds. zero	-.8"	0.7"	1.1"	0.0	-2.6"	-6.8"	-12.7"
TRAJ: 100 yds. zero	-.8"	1.4"	2.3"	1.9"	0.0	-3.6"	-8.9"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.1"	2.8"	0.0	-4.6"
TRAJ: 150 yds. zero	-.8"	2.9"	5.3"	6.4"	5.9"	3.8"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1350	1282	1220	1166	1118	1078	1043
ENERGY (ft.-lbs.)	850	766	694	634	583	541	507
TRAJ: 25 yds. zero	-.8"	0.0"	-0.5"	-2.5"	-6.1"	-11.4"	-18.6"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0"	-1.7"	-5.0"	-10.1"	-17.0"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0"	-2.7"	-7.2"	-13.6"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0"	-3.8"	-9.4"
TRAJ: 125 yds. zero	-.8"	2.3"	4.0"	4.3"	3.0"	0.0"	-4.9"
TRAJ: 150 yds. zero	-.8"	3.1"	5.7"	6.8"	6.3"	4.1"	0.0"
VELOCITY (fps)	1300	1237	1180	1131	1088	1052	1020
ENERGY (ft.-lbs.)	788	713	649	596	552	516	485
TRAJ: 25 yds. zero	-.8"	0.0"	-0.6"	-2.8"	-6.7"	-12.4"	-20.0"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0"	-1.9"	-5.4"	-10.8"	-18.2"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0"	-2.9"	-7.7"	-14.4"
TRAJ: 100 yds. zero	-.8"	1.7"	2.7"	2.2"	0.0"	-4.0"	-10.0"
TRAJ: 125 yds. zero	-.8"	2.5"	4.3"	4.6"	3.2"	0.0"	-5.2"
TRAJ: 150 yds. zero	-.8"	3.3"	6.1"	7.2"	6.7"	4.3"	0.0"
VELOCITY (fps)	1250	1192	1141	1097	1059	1027	998
ENERGY (ft.-lbs.)	728	662	607	561	523	491	464
TRAJ: 25 yds. zero	-.8"	0.0"	-0.7"	-3.1"	-7.3"	-13.4"	-21.6"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0"	-2.0"	-5.9"	-11.6"	-19.4"
TRAJ: 75 yds. zero	-.8"	1.0"	1.4"	0.0"	-3.2"	-8.2"	-15.4"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.4"	0.0"	-4.3"	-10.6"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	4.9"	3.4"	0.0"	-5.5"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.7"	7.1"	4.6"	0.0"
VELOCITY (fps)	1200	1148	1103	1065	1031	1002	976
ENERGY (ft.-lbs.)	671	614	567	528	496	468	444
TRAJ: 25 yds. zero	-.8"	0.0"	-0.8"	-3.5"	-8.0"	-14.6"	-23.3"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0"	-2.2"	-6.3"	-12.5"	-20.8"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0"	-3.4"	-8.8"	-16.4"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.5"	0.0"	-4.6"	-11.3"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.3"	3.7"	0.0"	-5.8"
TRAJ: 150 yds. zero	-.8"	3.9"	6.9"	8.2"	7.5"	4.8"	0.0"
VELOCITY (fps)	1150	1105	1066	1032	1003	977	953
ENERGY (ft.-lbs.)	617	569	530	497	469	445	423
TRAJ: 25 yds. zero	-.8"	0.0"	-1.0"	-3.9"	-8.8"	-15.9"	-25.2"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0"	-2.4"	-6.8"	-13.4"	-22.3"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0"	-3.6"	-9.4"	-17.5"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0"	-4.9"	-12.0"
TRAJ: 125 yds. zero	-.8"	3.2"	5.4"	5.6"	3.9"	0.0"	-6.2"
TRAJ: 150 yds. zero	-.8"	4.2"	7.4"	8.7"	8.0"	5.1"	0.0"
VELOCITY (fps)	1100	1062	1029	1000	974	950	929
ENERGY (ft.-lbs.)	564	526	494	466	442	421	402
TRAJ: 25 yds. zero	-.8"	0.0"	-1.1"	-4.3"	-9.6"	-17.3"	-27.3"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0"	-2.6"	-7.4"	-14.5"	-23.9"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0"	-3.9"	-10.1"	-18.7"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0"	-5.2"	-12.8"
TRAJ: 125 yds. zero	-.8"	3.5"	5.8"	6.1"	4.2"	0.0"	-6.6"
TRAJ: 150 yds. zero	-.8"	4.5"	8.0"	9.3"	8.5"	5.5"	0.0"
VELOCITY (fps)	1050	1019	991	966	943	922	902
ENERGY (ft.-lbs.)	514	484	458	435	414	396	379
TRAJ: 25 yds. zero	-.8"	0.0"	-1.3"	-4.8"	-10.6"	-18.9"	-29.7"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0"	-2.9"	-8.0"	-15.7"	-25.8"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0"	-4.2"	-10.9"	-20.1"
TRAJ: 100 yds. zero	-.8"	2.7"	4.0"	3.2"	0.0"	-5.6"	-13.8"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.5"	4.5"	0.0"	-7.0"
TRAJ: 150 yds. zero	-.8"	5.0"	8.6"	10.1"	9.2"	5.9"	0.0"
VELOCITY (fps)	1000	974	950	929	909	890	872
ENERGY (ft.-lbs.)	466	442	421	402	385	369	354
TRAJ: 25 yds. zero	-.8"	0.0"	-1.5"	-5.4"	-11.8"	-20.8"	-32.6"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0"	-3.1"	-8.8"	-17.1"	-28.1"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0"	-4.6"	-11.8"	-21.8"
TRAJ: 100 yds. zero	-.8"	2.9"	4.4"	3.5"	0.0"	-6.1"	-14.9"
TRAJ: 125 yds. zero	-.8"	4.2"	6.8"	7.1"	4.9"	0.0"	-7.6"
TRAJ: 150 yds. zero	-.8"	5.4"	9.4"	10.9"	9.9"	6.3"	0.0"

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	950	928	908	889	871	854	838
ENERGY (ft.-lbs.)	421	402	385	369	354	340	328
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.2"	-23.1"	-36.0"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.7"	-18.8"	-30.9"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.1"	-13.0"	-23.9"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.8"	0.0	-6.7"	-16.3"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.8"	5.3"	0.0	-8.3"
TRAJ: 150 yds. zero	-.8"	6.0"	10.3"	12.0"	10.9"	6.9"	0.0
VELOCITY (fps)	900	882	864	847	832	816	801
ENERGY (ft.-lbs.)	378	362	348	335	322	311	299
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.8"	-25.9"	-40.2"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.8"	-20.9"	-34.2"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.4"	-26.4"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.4"	-18.0"
TRAJ: 125 yds. zero	-.8"	5.2"	8.4"	8.6"	5.9"	0.0	-9.1"
TRAJ: 150 yds. zero	-.8"	6.7"	11.4"	13.2"	12.0"	7.6"	0.0
VELOCITY (fps)	850	834	819	804	789	775	762
ENERGY (ft.-lbs.)	337	324	312	301	290	280	271
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.8"	-29.2"	-45.2"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.2"	-23.4"	-38.3"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-16.1"	-29.5"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.7"	0.0	-8.2"	-20.0"
TRAJ: 125 yds. zero	-.8"	5.8"	9.4"	9.6"	6.6"	0.0	-10.2"
TRAJ: 150 yds. zero	-.8"	7.5"	12.8"	14.7"	13.4"	8.5"	0.0
VELOCITY (fps)	800	786	772	759	746	733	720
ENERGY (ft.-lbs.)	298	288	278	268	259	250	242
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.1"	-19.2"	-33.2"	-51.3"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.8"	-26.5"	-43.2"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.1"	-18.1"	-33.2"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.3"	0.0	-9.2"	-22.5"
TRAJ: 125 yds. zero	-.8"	6.6"	10.6"	10.9"	7.4"	0.0	-11.4"
TRAJ: 150 yds. zero	-.8"	8.6"	14.4"	16.6"	15.0"	9.5"	0.0
VELOCITY (fps)	750	737	725	712	701	689	677
ENERGY (ft.-lbs.)	262	253	245	237	229	221	214
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.5"	-22.1"	-38.1"	-58.8"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.7"	-30.2"	-49.2"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.1"	-20.6"	-37.7"
TRAJ: 100 yds. zero	-.8"	5.5"	7.9"	6.1"	0.0	-10.5"	-25.6"
TRAJ: 125 yds. zero	-.8"	7.6"	12.1"	12.4"	8.4"	0.0	-13.0"
TRAJ: 150 yds. zero	-.8"	9.8"	16.4"	18.9"	17.1"	10.8"	0.0
VELOCITY (fps)	700	688	677	666	655	644	633
ENERGY (ft.-lbs.)	228	221	214	207	200	193	187
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.3"	-25.7"	-44.2"	-67.9"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.6"	-18.2"	-34.8"	-56.6"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.3"	-23.7"	-43.3"
TRAJ: 100 yds. zero	-.8"	6.4"	9.1"	7.0"	0.0	-12.1"	-29.3"
TRAJ: 125 yds. zero	-.8"	8.8"	13.9"	14.2"	9.6"	0.0	-14.9"
TRAJ: 150 yds. zero	-.8"	11.3"	18.9"	21.7"	19.6"	12.4"	0.0

44 CALIBER (.430" Dia.) 180 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .139 BALLISTIC COEFFICIENT: .155

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2200	2072	1948	1829	1715	1606	1504
ENERGY (ft.-lbs.)	1934	1715	1516	1336	1175	1031	904
TRAJ: 25 yds. zero	-.8"	0.0	0.3"	0.0	-0.9"	-2.6"	-5.1"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.4"	-1.5"	-3.3"	-6.0"
TRAJ: 75 yds. zero	-.8"	-0.0"	0.3"	0.0	-0.9"	-2.6"	-5.1"
TRAJ: 100 yds. zero	-.8"	0.2"	0.8"	0.7"	0.0	-1.4"	-3.7"
TRAJ: 125 yds. zero	-.8"	0.5"	1.3"	1.6"	1.2"	0.0	-2.0"
TRAJ: 150 yds. zero	-.8"	0.8"	2.0"	2.6"	2.5"	1.7"	0.0
VELOCITY (fps)	2150	2023	1901	1784	1672	1566	1467
ENERGY (ft.-lbs.)	1847	1636	1445	1272	1117	980	860
TRAJ: 25 yds. zero	-.8"	0.0	0.3"	-0.1"	-1.1"	-2.9"	-5.6"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.6"	-3.5"	-6.4"
TRAJ: 75 yds. zero	-.8"	0.0	0.3"	0.0	-1.0"	-2.8"	-5.4"
TRAJ: 100 yds. zero	-.8"	0.3"	0.8"	0.7"	0.0	-1.5"	-3.9"
TRAJ: 125 yds. zero	-.8"	0.6"	1.4"	1.7"	1.2"	0.0	-2.1"
TRAJ: 150 yds. zero	-.8"	0.9"	2.1"	2.7"	2.6"	1.8"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2100	1975	1855	1740	1630	1526	1430
ENERGY (ft.-lbs.)	1762	1559	1375	1209	1062	931	817
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.1"	-1.3"	-3.2"	-6.0"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.5"	-1.7"	-3.8"	-6.8"
TRAJ: 75 yds. zero	-.8"	0.0	0.3"	0.0	-1.1"	-2.9"	-5.7"
TRAJ: 100 yds. zero	-.8"	0.3"	0.9"	0.8"	0.0	-1.6"	-4.2"
TRAJ: 125 yds. zero	-.8"	0.6"	1.5"	1.8"	1.3"	0.0	-2.2"
TRAJ: 150 yds. zero	-.8"	1.0"	2.3"	2.9"	2.8"	1.9"	0.0
VELOCITY (fps)	2050	1927	1809	1696	1588	1487	1394
ENERGY (ft.-lbs.)	1679	1484	1307	1149	1008	884	776
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.2"	-1.4"	-3.5"	-6.6"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-1.9"	-4.0"	-7.2"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.1"	-3.1"	-6.1"
TRAJ: 100 yds. zero	-.8"	0.4"	0.9"	0.8"	0.0	-1.7"	-4.4"
TRAJ: 125 yds. zero	-.8"	0.7"	1.6"	1.9"	1.4"	0.0	-2.4"
TRAJ: 150 yds. zero	-.8"	1.1"	2.4"	3.0"	2.9"	2.0"	0.0
VELOCITY (fps)	2000	1879	1763	1652	1547	1449	1358
ENERGY (ft.-lbs.)	1598	1411	1241	1090	956	839	737
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.6"	-3.9"	-7.1"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.0"	-4.3"	-7.7"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.3"	-6.5"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.8"	-4.7"
TRAJ: 125 yds. zero	-.8"	0.8"	1.7"	2.0"	1.4"	0.0	-2.5"
TRAJ: 150 yds. zero	-.8"	1.2"	2.6"	3.2"	3.1"	2.1"	0.0
VELOCITY (fps)	1950	1831	1717	1608	1506	1411	1324
ENERGY (ft.-lbs.)	1520	1339	1178	1034	906	795	700
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.4"	-1.9"	-4.2"	-7.7"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.2"	-4.6"	-8.2"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.3"	-3.5"	-6.9"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	1.0"	0.0	-1.9"	-4.9"
TRAJ: 125 yds. zero	-.8"	0.8"	1.9"	2.1"	1.5"	0.0	-2.6"
TRAJ: 150 yds. zero	-.8"	1.3"	2.7"	3.4"	3.3"	2.2"	0.0
VELOCITY (fps)	1900	1783	1671	1565	1466	1374	1290
ENERGY (ft.-lbs.)	1443	1270	1116	979	858	754	665
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.5"	-2.1"	-4.7"	-8.4"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.3"	-5.0"	-8.7"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.7"	-7.3"
TRAJ: 100 yds. zero	-.8"	0.5"	1.2"	1.0"	0.0	-2.0"	-5.2"
TRAJ: 125 yds. zero	-.8"	0.9"	2.0"	2.2"	1.6"	0.0	-2.8"
TRAJ: 150 yds. zero	-.8"	1.4"	2.9"	3.6"	3.5"	2.3"	0.0
VELOCITY (fps)	1850	1735	1626	1522	1426	1337	1257
ENERGY (ft.-lbs.)	1368	1203	1056	926	813	715	632
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.7"	-2.4"	-5.1"	-9.1"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.5"	-5.3"	-9.3"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.5"	-4.0"	-7.7"
TRAJ: 100 yds. zero	-.8"	0.6"	1.3"	1.1"	0.0	-2.2"	-5.5"
TRAJ: 125 yds. zero	-.8"	1.0"	2.1"	2.4"	1.7"	0.0	-2.9"
TRAJ: 150 yds. zero	-.8"	1.5"	3.1"	3.9"	3.7"	2.5"	0.0
VELOCITY (fps)	1800	1687	1580	1480	1387	1302	1226
ENERGY (ft.-lbs.)	1295	1138	998	875	769	677	601
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.8"	-2.6"	-5.6"	-9.8"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.7"	-5.7"	-9.9"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.6"	-4.3"	-8.2"
TRAJ: 100 yds. zero	-.8"	0.7"	1.3"	1.2"	0.0	-2.3"	-5.9"
TRAJ: 125 yds. zero	-.8"	1.1"	2.3"	2.6"	1.8"	0.0	-3.1"
TRAJ: 150 yds. zero	-.8"	1.6"	3.3"	4.1"	3.9"	2.6"	0.0
VELOCITY (fps)	1750	1640	1536	1438	1349	1267	1196
ENERGY (ft.-lbs.)	1224	1075	942	827	727	642	572
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-0.9"	-2.9"	-6.1"	-10.6"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-0.9"	-2.9"	-6.1"	-10.6"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.5"	-8.8"
TRAJ: 100 yds. zero	-.8"	0.7"	1.5"	1.3"	0.0	-2.4"	-6.3"
TRAJ: 125 yds. zero	-.8"	1.2"	2.4"	2.7"	2.0"	0.0	-3.3"
TRAJ: 150 yds. zero	-.8"	1.8"	3.5"	4.4"	4.2"	2.8"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1700	1592	1491	1397	1311	1234	1167
ENERGY (ft.-lbs.)	1155	1013	889	780	687	609	544
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.1"	-3.2"	-6.7"	-11.5"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.1"	-6.5"	-11.3"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.8"	-9.3"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.3"	0.0	-2.6"	-6.6"
TRAJ: 125 yds. zero	-.8"	1.3"	2.6"	2.9"	2.1"	0.0	-3.5"
TRAJ: 150 yds. zero	-.8"	1.9"	3.8"	4.7"	4.4"	2.9"	0.0
VELOCITY (fps)	1650	1545	1447	1357	1275	1202	1140
ENERGY (ft.-lbs.)	1088	954	837	736	649	578	519
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-3.6"	-7.3"	-12.4"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.4"	-7.0"	-12.1"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.2"	-9.9"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.4"	0.0	-2.8"	-7.0"
TRAJ: 125 yds. zero	-.8"	1.5"	2.8"	3.1"	2.2"	0.0	-3.7"
TRAJ: 150 yds. zero	-.8"	2.1"	4.0"	5.0"	4.7"	3.1"	0.0
VELOCITY (fps)	1600	1498	1404	1317	1239	1172	1114
ENERGY (ft.-lbs.)	1023	897	787	693	614	549	496
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.4"	-4.0"	-7.9"	-13.4"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.6"	-7.5"	-12.9"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.0"	-5.5"	-10.5"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0	-2.9"	-7.5"
TRAJ: 125 yds. zero	-.8"	1.6"	3.0"	3.3"	2.4"	0.0	-3.9"
TRAJ: 150 yds. zero	-.8"	2.2"	4.3"	5.3"	5.0"	3.3"	0.0
VELOCITY (fps)	1550	1452	1361	1278	1205	1143	1090
ENERGY (ft.-lbs.)	960	842	740	653	581	522	475
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.4"	-8.6"	-14.5"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-3.9"	-8.0"	-13.8"
TRAJ: 75 yds. zero	-.8"	0.5"	0.9"	0.0	-2.2"	-5.9"	-11.2"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.6"	0.0	-3.1"	-7.9"
TRAJ: 125 yds. zero	-.8"	1.7"	3.2"	3.5"	2.5"	0.0	-4.2"
TRAJ: 150 yds. zero	-.8"	2.4"	4.6"	5.6"	5.3"	3.5"	0.0
VELOCITY (fps)	1500	1405	1318	1241	1173	1115	1067
ENERGY (ft.-lbs.)	899	789	695	615	550	497	455
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.9"	-4.8"	-9.4"	-15.6"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.4"	-4.2"	-8.6"	-14.7"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.3"	-6.3"	-11.9"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.8"	0.0	-3.3"	-8.4"
TRAJ: 125 yds. zero	-.8"	1.9"	3.4"	3.8"	2.7"	0.0	-4.4"
TRAJ: 150 yds. zero	-.8"	2.6"	4.9"	6.0"	5.6"	3.7"	0.0
VELOCITY (fps)	1450	1359	1277	1204	1142	1089	1046
ENERGY (ft.-lbs.)	840	738	652	579	521	474	437
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.1"	-5.3"	-10.2"	-16.9"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.5"	-9.2"	-15.7"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.5"	-6.7"	-12.7"
TRAJ: 100 yds. zero	-.8"	1.3"	2.3"	1.9"	0.0	-3.5"	-8.9"
TRAJ: 125 yds. zero	-.8"	2.0"	3.7"	4.0"	2.8"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.8"	5.2"	6.3"	5.9"	3.9"	0.0
VELOCITY (fps)	1400	1314	1236	1169	1112	1065	1025
ENERGY (ft.-lbs.)	783	690	611	546	494	453	420
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.3"	-5.8"	-11.0"	-18.1"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.9"	-9.9"	-16.8"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.7"	-7.1"	-13.5"
TRAJ: 100 yds. zero	-.8"	1.5"	2.4"	2.0"	0.0	-3.8"	-9.4"
TRAJ: 125 yds. zero	-.8"	2.2"	4.0"	4.3"	3.0"	0.0	-4.9"
TRAJ: 150 yds. zero	-.8"	3.0"	5.6"	6.7"	6.3"	4.1"	0.0
VELOCITY (fps)	1350	1269	1197	1136	1084	1042	1005
ENERGY (ft.-lbs.)	728	643	573	515	470	434	404
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.6"	-6.4"	-11.9"	-19.5"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.3"	-10.6"	-17.9"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.9"	-7.6"	-14.3"
TRAJ: 100 yds. zero	-.8"	1.6"	2.6"	2.2"	0.0	-4.0"	-10.0"
TRAJ: 125 yds. zero	-.8"	2.4"	4.2"	4.6"	3.2"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.3"	6.0"	7.1"	6.6"	4.3"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1300	1224	1159	1104	1058	1019	986
ENERGY (ft.-lbs.)	675	599	537	487	447	415	388
TRAJ: 25 yds. zero	-.8"	0.0"	-0.6"	-2.9"	-7.0"	-12.9"	-21.0"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0"	-1.9"	-5.7"	-11.3"	-19.0"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0"	-3.1"	-8.1"	-15.1"
TRAJ: 100 yds. zero	-.8"	1.7"	2.8"	2.3"	0.0"	-4.2"	-10.5"
TRAJ: 125 yds. zero	-.8"	2.6"	4.5"	4.8"	3.4"	0.0"	-5.5"
TRAJ: 150 yds. zero	-.8"	3.5"	6.3"	7.6"	7.0"	4.6"	0.0"
VELOCITY (fps)	1250	1181	1122	1073	1032	997	966
ENERGY (ft.-lbs.)	624	557	503	460	426	397	373
TRAJ: 25 yds. zero	-.8"	0.0"	-0.8"	-3.2"	-7.6"	-14.0"	-22.5"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0"	-2.1"	-6.1"	-12.1"	-20.3"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0"	-3.3"	-8.6"	-16.1"
TRAJ: 100 yds. zero	-.8"	1.9"	3.0"	2.5"	0.0"	-4.5"	-11.1"
TRAJ: 125 yds. zero	-.8"	2.8"	4.8"	5.2"	3.6"	0.0"	-5.8"
TRAJ: 150 yds. zero	-.8"	3.8"	6.8"	8.0"	7.4"	4.8"	0.0"
VELOCITY (fps)	1200	1138	1086	1043	1007	975	947
ENERGY (ft.-lbs.)	575	518	472	435	405	380	358
TRAJ: 25 yds. zero	-.8"	0.0"	-0.9"	-3.6"	-8.3"	-15.1"	-24.2"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0"	-2.3"	-6.5"	-12.9"	-21.6"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0"	-3.5"	-9.1"	-17.0"
TRAJ: 100 yds. zero	-.8"	2.1"	3.3"	2.6"	0.0"	-4.8"	-11.8"
TRAJ: 125 yds. zero	-.8"	3.0"	5.2"	5.5"	3.8"	0.0"	-6.1"
TRAJ: 150 yds. zero	-.8"	4.0"	7.2"	8.5"	7.9"	5.1"	0.0"
VELOCITY (fps)	1150	1096	1052	1014	981	952	926
ENERGY (ft.-lbs.)	528	480	442	411	385	362	343
TRAJ: 25 yds. zero	-.8"	0.0"	-1.0"	-4.0"	-9.0"	-16.4"	-26.1"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0"	-2.5"	-7.0"	-13.8"	-23.0"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0"	-3.7"	-9.7"	-18.1"
TRAJ: 100 yds. zero	-.8"	2.3"	3.5"	2.8"	0.0"	-5.1"	-12.5"
TRAJ: 125 yds. zero	-.8"	3.3"	5.5"	5.8"	4.0"	0.0"	-6.4"
TRAJ: 150 yds. zero	-.8"	4.3"	7.7"	9.1"	8.3"	5.3"	0.0"
VELOCITY (fps)	1100	1055	1017	984	954	928	904
ENERGY (ft.-lbs.)	484	445	413	387	364	344	327
TRAJ: 25 yds. zero	-.8"	0.0"	-1.2"	-4.4"	-9.9"	-17.8"	-28.1"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0"	-2.7"	-7.6"	-14.9"	-24.7"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0"	-4.0"	-10.4"	-19.3"
TRAJ: 100 yds. zero	-.8"	2.5"	3.8"	3.0"	0.0"	-5.4"	-13.3"
TRAJ: 125 yds. zero	-.8"	3.6"	5.9"	6.2"	4.3"	0.0"	-6.8"
TRAJ: 150 yds. zero	-.8"	4.7"	8.2"	9.7"	8.9"	5.7"	0.0"
VELOCITY (fps)	1050	1013	980	951	925	901	879
ENERGY (ft.-lbs.)	441	410	384	362	342	325	309
TRAJ: 25 yds. zero	-.8"	0.0"	-1.3"	-4.9"	-10.9"	-19.4"	-30.5"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0"	-2.9"	-8.2"	-16.1"	-26.6"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0"	-4.3"	-11.2"	-20.7"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.3"	0.0"	-5.8"	-14.2"
TRAJ: 125 yds. zero	-.8"	3.9"	6.4"	6.7"	4.6"	0.0"	-7.3"
TRAJ: 150 yds. zero	-.8"	5.1"	8.9"	10.4"	9.5"	6.1"	0.0"
VELOCITY (fps)	1000	969	941	916	893	871	851
ENERGY (ft.-lbs.)	400	375	354	335	319	303	289
TRAJ: 25 yds. zero	-.8"	0.0"	-1.5"	-5.5"	-12.0"	-21.3"	-33.4"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0"	-3.2"	-9.0"	-17.5"	-28.9"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0"	-4.7"	-12.2"	-22.4"
TRAJ: 100 yds. zero	-.8"	3.0"	4.5"	3.5"	0.0"	-6.3"	-15.4"
TRAJ: 125 yds. zero	-.8"	4.3"	7.0"	7.3"	5.0"	0.0"	-7.9"
TRAJ: 150 yds. zero	-.8"	5.6"	9.6"	11.2"	10.2"	6.6"	0.0"
VELOCITY (fps)	950	924	900	878	857	838	819
ENERGY (ft.-lbs.)	361	341	324	308	294	280	268
TRAJ: 25 yds. zero	-.8"	0.0"	-1.7"	-6.2"	-13.4"	-23.6"	-36.8"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0"	-3.6"	-9.9"	-19.2"	-31.6"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0"	-5.2"	-13.3"	-24.5"
TRAJ: 100 yds. zero	-.8"	3.3"	5.0"	3.9"	0.0"	-6.8"	-16.8"
TRAJ: 125 yds. zero	-.8"	4.7"	7.7"	8.0"	5.5"	0.0"	-8.5"
TRAJ: 150 yds. zero	-.8"	6.1"	10.5"	12.3"	11.2"	7.1"	0.0"

**Hornady
HANDBOOK**

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	900	878	857	838	819	801	784
ENERGY (ft.-lbs.)	324	308	294	280	268	256	246
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.0"	-15.1"	-26.4"	-41.1"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.0"	-21.3"	-35.0"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.7"	-14.7"	-27.1"
TRAJ: 100 yds. zero	-.8"	3.8"	5.5"	4.3"	0.0	-7.5"	-18.5"
TRAJ: 125 yds. zero	-.8"	5.3"	8.5"	8.8"	6.0"	0.0	-9.4"
TRAJ: 150 yds. zero	-.8"	6.8"	11.7"	13.5"	12.3"	7.9"	0.0
VELOCITY (fps)	850	831	812	795	778	762	746
ENERGY (ft.-lbs.)	289	276	264	252	242	232	222
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-8.0"	-17.1"	-29.7"	-46.1"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.5"	-12.4"	-23.8"	-39.1"
TRAJ: 75 yds. zero	-.8"	2.7"	3.0"	0.0	-6.4"	-16.4"	-30.2"
TRAJ: 100 yds. zero	-.8"	4.3"	6.2"	4.8"	0.0	-8.4"	-20.5"
TRAJ: 125 yds. zero	-.8"	5.9"	9.5"	9.8"	6.7"	0.0	-10.5"
TRAJ: 150 yds. zero	-.8"	7.7"	13.0"	15.1"	13.7"	8.7"	0.0
VELOCITY (fps)	800	783	766	750	735	720	706
ENERGY (ft.-lbs.)	256	245	235	225	216	207	199
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.2"	-19.5"	-33.8"	-52.3"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.1"	-14.0"	-26.9"	-44.1"
TRAJ: 75 yds. zero	-.8"	3.1"	3.4"	0.0	-7.2"	-18.5"	-33.9"
TRAJ: 100 yds. zero	-.8"	4.9"	7.0"	5.4"	0.0	-9.4"	-23.1"
TRAJ: 125 yds. zero	-.8"	6.8"	10.8"	11.1"	7.5"	0.0	-11.8"
TRAJ: 150 yds. zero	-.8"	8.7"	14.7"	17.0"	15.4"	9.8"	0.0

44 CALIBER (.430" Dia.) 200 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .155 BALLISTIC COEFFICIENT: .170

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2000	1889	1783	1680	1583	1491	1405
ENERGY (ft.-lbs.)	1776	1585	1411	1254	1113	987	877
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.6"	-3.7"	-6.8"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-1.9"	-4.2"	-7.4"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.2"	-6.2"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.7"	-4.5"
TRAJ: 125 yds. zero	-.8"	0.7"	1.7"	1.9"	1.4"	0.0	-2.4"
TRAJ: 150 yds. zero	-.8"	1.1"	2.5"	3.1"	3.0"	2.0"	0.0
VELOCITY (fps)	1950	1841	1736	1636	1541	1452	1369
ENERGY (ft.-lbs.)	1688	1505	1339	1189	1055	936	832
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.4"	-1.8"	-4.1"	-7.4"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.1"	-4.5"	-7.9"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.4"	-6.6"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.8"	-4.7"
TRAJ: 125 yds. zero	-.8"	0.8"	1.8"	2.0"	1.5"	0.0	-2.5"
TRAJ: 150 yds. zero	-.8"	1.2"	2.6"	3.3"	3.1"	2.1"	0.0
VELOCITY (fps)	1900	1793	1690	1592	1500	1413	1333
ENERGY (ft.-lbs.)	1603	1427	1269	1126	999	887	789
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.5"	-2.0"	-4.5"	-8.0"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.3"	-4.8"	-8.4"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.3"	-3.6"	-7.0"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	1.0"	0.0	-2.0"	-5.0"
TRAJ: 125 yds. zero	-.8"	0.9"	1.9"	2.2"	1.6"	0.0	-2.7"
TRAJ: 150 yds. zero	-.8"	1.3"	2.8"	3.5"	3.3"	2.2"	0.0
VELOCITY (fps)	1850	1745	1644	1549	1459	1375	1299
ENERGY (ft.-lbs.)	1520	1352	1201	1065	945	840	749
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.6"	-2.3"	-4.9"	-8.7"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.4"	-5.1"	-9.0"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.8"	-7.4"
TRAJ: 100 yds. zero	-.8"	0.6"	1.2"	1.1"	0.0	-2.1"	-5.3"
TRAJ: 125 yds. zero	-.8"	1.0"	2.0"	2.3"	1.7"	0.0	-2.8"
TRAJ: 150 yds. zero	-.8"	1.4"	3.0"	3.7"	3.5"	2.3"	0.0
VELOCITY (fps)	1800	1697	1599	1506	1419	1338	1265
ENERGY (ft.-lbs.)	1439	1279	1135	1007	894	795	710
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.8"	-2.5"	-5.4"	-9.4"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.6"	-5.5"	-9.6"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.5"	-4.1"	-7.9"
TRAJ: 100 yds. zero	-.8"	0.6"	1.3"	1.1"	0.0	-2.2"	-5.6"
TRAJ: 125 yds. zero	-.8"	1.1"	2.2"	2.5"	1.8"	0.0	-3.0"
TRAJ: 150 yds. zero	-.8"	1.6"	3.2"	4.0"	3.8"	2.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1750	1649	1554	1463	1379	1302	1233
ENERGY (ft.-lbs.)	1360	1208	1072	951	845	753	674
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.9"	-2.8"	-5.9"	-10.2"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.8"	-5.9"	-10.2"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.6"	-4.4"	-8.4"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.2"	0.0	-2.4"	-6.0"
TRAJ: 125 yds. zero	-.8"	1.2"	2.3"	2.6"	1.9"	0.0	-3.2"
TRAJ: 150 yds. zero	-.8"	1.7"	3.4"	4.2"	4.0"	2.6"	0.0
VELOCITY (fps)	1700	1602	1509	1421	1341	1267	1201
ENERGY (ft.-lbs.)	1283	1139	1011	897	798	713	641
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.1"	-6.4"	-11.1"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.0"	-6.3"	-10.9"
TRAJ: 75 yds. zero	-.8"	0.3"	0.7"	0.0	-1.7"	-4.7"	-9.0"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.5"	-6.4"
TRAJ: 125 yds. zero	-.8"	1.3"	2.5"	2.8"	2.0"	0.0	-3.4"
TRAJ: 150 yds. zero	-.8"	1.8"	3.6"	4.5"	4.2"	2.8"	0.0
VELOCITY (fps)	1650	1554	1464	1380	1303	1233	1172
ENERGY (ft.-lbs.)	1209	1073	952	845	753	675	610
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.2"	-3.5"	-7.0"	-12.0"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.1"	-3.3"	-6.8"	-11.7"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.0"	-9.5"
TRAJ: 100 yds. zero	-.8"	0.9"	1.6"	1.4"	0.0	-2.7"	-6.8"
TRAJ: 125 yds. zero	-.8"	1.4"	2.7"	3.0"	2.1"	0.0	-3.6"
TRAJ: 150 yds. zero	-.8"	2.0"	3.9"	4.8"	4.5"	3.0"	0.0
VELOCITY (fps)	1600	1507	1420	1339	1266	1200	1143
ENERGY (ft.-lbs.)	1137	1008	895	796	711	640	581
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.4"	-3.8"	-7.6"	-13.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.5"	-7.3"	-12.5"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.0"	-5.3"	-10.2"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0	-2.8"	-7.2"
TRAJ: 125 yds. zero	-.8"	1.5"	2.9"	3.2"	2.3"	0.0	-3.8"
TRAJ: 150 yds. zero	-.8"	2.2"	4.2"	5.1"	4.8"	3.2"	0.0
VELOCITY (fps)	1550	1460	1376	1299	1230	1169	1117
ENERGY (ft.-lbs.)	1067	947	841	750	672	607	554
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.2"	-8.3"	-14.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-3.8"	-7.8"	-13.4"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.7"	-10.8"
TRAJ: 100 yds. zero	-.8"	1.1"	1.9"	1.6"	0.0	-3.0"	-7.7"
TRAJ: 125 yds. zero	-.8"	1.7"	3.1"	3.4"	2.4"	0.0	-4.0"
TRAJ: 150 yds. zero	-.8"	2.3"	4.5"	5.4"	5.1"	3.3"	0.0
VELOCITY (fps)	1500	1413	1333	1260	1196	1139	1092
ENERGY (ft.-lbs.)	999	887	789	705	635	576	529
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.8"	-4.7"	-9.1"	-15.1"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.4"	-4.1"	-8.4"	-14.3"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.3"	-6.1"	-11.5"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.7"	0.0	-3.2"	-8.1"
TRAJ: 125 yds. zero	-.8"	1.8"	3.3"	3.6"	2.6"	0.0	-4.3"
TRAJ: 150 yds. zero	-.8"	2.5"	4.8"	5.8"	5.4"	3.5"	0.0
VELOCITY (fps)	1450	1367	1291	1222	1163	1111	1068
ENERGY (ft.-lbs.)	934	830	740	664	600	548	506
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.0"	-5.1"	-9.9"	-16.4"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.4"	-9.0"	-15.3"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.4"	-6.5"	-12.3"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.4"	-8.6"
TRAJ: 125 yds. zero	-.8"	2.0"	3.6"	3.9"	2.8"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.7"	5.1"	6.1"	5.8"	3.8"	0.0
VELOCITY (fps)	1400	1321	1249	1186	1131	1085	1045
ENERGY (ft.-lbs.)	870	775	693	625	568	522	485
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.3"	-5.7"	-10.7"	-17.6"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.8"	-9.6"	-16.3"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.6"	-6.9"	-13.1"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	2.0"	0.0	-3.7"	-9.2"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.2"	2.9"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	2.9"	5.4"	6.5"	6.1"	4.0"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1350	1276	1209	1151	1101	1059	1024
ENERGY (ft.-lbs.)	809	722	649	588	539	498	465
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.6"	-6.2"	-11.7"	-19.0"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.1"	-10.3"	-17.4"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.8"	-7.4"	-13.9"
TRAJ: 100 yds. zero	-.8"	1.6"	2.6"	2.1"	0.0	-3.9"	-9.7"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.4"	3.1"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.2"	5.8"	7.0"	6.5"	4.2"	0.0
VELOCITY (fps)	1300	1231	1170	1117	1073	1035	1003
ENERGY (ft.-lbs.)	750	672	607	554	511	476	447
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.9"	-6.8"	-12.6"	-20.5"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.5"	-11.1"	-18.6"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.0"	-7.9"	-14.8"
TRAJ: 100 yds. zero	-.8"	1.7"	2.8"	2.3"	0.0	-4.1"	-10.3"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.3"	0.0	-5.3"
TRAJ: 150 yds. zero	-.8"	3.4"	6.2"	7.4"	6.8"	4.4"	0.0
VELOCITY (fps)	1250	1187	1132	1085	1046	1012	982
ENERGY (ft.-lbs.)	694	625	569	523	486	455	428
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.2"	-7.5"	-13.7"	-22.1"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.0"	-11.9"	-19.8"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.2"	-8.4"	-15.7"
TRAJ: 100 yds. zero	-.8"	1.9"	3.0"	2.4"	0.0	-4.4"	-10.9"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.0"	3.5"	0.0	-5.6"
TRAJ: 150 yds. zero	-.8"	3.7"	6.6"	7.9"	7.3"	4.7"	0.0
VELOCITY (fps)	1200	1143	1095	1054	1019	989	961
ENERGY (ft.-lbs.)	639	580	532	493	461	434	410
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.5"	-8.1"	-14.9"	-23.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.7"	-21.2"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.4"	-9.0"	-16.7"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.7"	-11.5"
TRAJ: 125 yds. zero	-.8"	3.0"	5.1"	5.4"	3.7"	0.0	-5.9"
TRAJ: 150 yds. zero	-.8"	4.0"	7.1"	8.3"	7.7"	4.9"	0.0
VELOCITY (fps)	1150	1101	1059	1023	992	965	940
ENERGY (ft.-lbs.)	587	538	498	465	437	413	392
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.9"	-16.1"	-25.6"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.9"	-13.6"	-22.6"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.7"	-9.6"	-17.8"
TRAJ: 100 yds. zero	-.8"	2.2"	3.5"	2.8"	0.0	-5.0"	-12.2"
TRAJ: 125 yds. zero	-.8"	3.2"	5.5"	5.7"	4.0"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.3"	7.5"	8.9"	8.2"	5.2"	0.0
VELOCITY (fps)	1100	1058	1023	992	964	939	916
ENERGY (ft.-lbs.)	537	497	465	437	413	392	373
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.8"	-17.5"	-27.7"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.5"	-14.7"	-24.3"
TRAJ: 75 yds. zero	-.8"	1.4"	1.8"	0.0	-4.0"	-10.3"	-19.0"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	3.0"	0.0	-5.3"	-13.0"
TRAJ: 125 yds. zero	-.8"	3.5"	5.9"	6.2"	4.2"	0.0	-6.7"
TRAJ: 150 yds. zero	-.8"	4.6"	8.1"	9.5"	8.7"	5.6"	0.0
VELOCITY (fps)	1050	1016	985	959	934	912	891
ENERGY (ft.-lbs.)	490	458	431	408	387	369	352
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.7"	-19.1"	-30.1"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-2.9"	-8.1"	-15.9"	-26.2"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.3"	-11.0"	-20.4"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.2"	0.0	-5.7"	-14.0"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.6"	4.6"	0.0	-7.2"
TRAJ: 150 yds. zero	-.8"	5.0"	8.7"	10.2"	9.3"	6.0"	0.0
VELOCITY (fps)	1000	972	946	923	901	881	862
ENERGY (ft.-lbs.)	444	419	397	378	360	344	330
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.9"	-21.0"	-33.0"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-8.9"	-17.3"	-28.5"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.7"	-12.0"	-22.1"
TRAJ: 100 yds. zero	-.8"	3.0"	4.4"	3.5"	0.0	-6.2"	-15.1"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.2"	4.9"	0.0	-7.7"
TRAJ: 150 yds. zero	-.8"	5.5"	9.5"	11.1"	10.1"	6.4"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	950	926	904	884	865	846	829
ENERGY (ft.-lbs.)	401	381	363	347	332	318	305
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.3"	-23.3"	-36.4"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.8"	-19.0"	-31.2"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.1"	-13.2"	-24.2"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.8"	0.0	-6.7"	-16.5"
TRAJ: 125 yds. zero	-.8"	4.7"	7.6"	7.9"	5.4"	0.0	-8.4"
TRAJ: 150 yds. zero	-.8"	6.1"	10.4"	12.1"	11.0"	7.0"	0.0
VELOCITY (fps)	900	880	861	843	825	809	793
ENERGY (ft.-lbs.)	360	344	329	315	302	290	279
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.9"	-26.1"	-40.6"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.9"	-21.1"	-34.6"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.7"	-14.5"	-26.7"
TRAJ: 100 yds. zero	-.8"	3.7"	5.5"	4.3"	0.0	-7.4"	-18.2"
TRAJ: 125 yds. zero	-.8"	5.2"	8.4"	8.7"	6.0"	0.0	-9.3"
TRAJ: 150 yds. zero	-.8"	6.8"	11.5"	13.4"	12.1"	7.7"	0.0
VELOCITY (fps)	850	832	816	799	784	769	754
ENERGY (ft.-lbs.)	321	308	295	284	273	262	252
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.9"	-29.5"	-45.7"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.3"	-23.6"	-38.7"
TRAJ: 75 yds. zero	-.8"	2.6"	3.0"	0.0	-6.4"	-16.2"	-29.8"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.8"	0.0	-8.3"	-20.3"
TRAJ: 125 yds. zero	-.8"	5.9"	9.4"	9.7"	6.6"	0.0	-10.3"
TRAJ: 150 yds. zero	-.8"	7.6"	12.9"	14.9"	13.5"	8.6"	0.0
VELOCITY (fps)	800	784	769	755	740	727	713
ENERGY (ft.-lbs.)	284	273	263	253	243	234	226
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.1"	-19.3"	-33.5"	-51.8"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.9"	-26.7"	-43.6"
TRAJ: 75 yds. zero	-.8"	3.0"	3.4"	0.0	-7.2"	-18.3"	-33.5"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.4"	0.0	-9.4"	-22.8"
TRAJ: 125 yds. zero	-.8"	6.7"	10.7"	11.0"	7.5"	0.0	-11.6"
TRAJ: 150 yds. zero	-.8"	8.6"	14.5"	16.8"	15.2"	9.6"	0.0
VELOCITY (fps)	750	736	722	709	696	683	671
ENERGY (ft.-lbs.)	250	240	232	223	215	207	200
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.6"	-22.3"	-38.4"	-59.2"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.8"	-15.9"	-30.4"	-49.6"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.2"	-20.8"	-38.1"
TRAJ: 100 yds. zero	-.8"	5.6"	7.9"	6.1"	0.0	-10.6"	-25.8"
TRAJ: 125 yds. zero	-.8"	7.7"	12.2"	12.5"	8.5"	0.0	-13.1"
TRAJ: 150 yds. zero	-.8"	9.9"	16.5"	19.0"	17.2"	10.9"	0.0
VELOCITY (fps)	700	687	675	662	650	639	627
ENERGY (ft.-lbs.)	218	210	202	195	188	181	175
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.4"	-25.9"	-44.5"	-68.5"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.7"	-18.3"	-35.0"	-57.1"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.4"	-23.9"	-43.8"
TRAJ: 100 yds. zero	-.8"	6.5"	9.1"	7.0"	0.0	-12.2"	-29.7"
TRAJ: 125 yds. zero	-.8"	8.9"	14.0"	14.4"	9.8"	0.0	-15.1"
TRAJ: 150 yds. zero	-.8"	11.4"	19.0"	21.9"	19.8"	12.6"	0.0
VELOCITY (fps)	650	638	627	615	604	593	582
ENERGY (ft.-lbs.)	188	181	174	168	162	156	151
TRAJ: 25 yds. zero	-.8"	0.0	-4.5"	-14.6"	-30.4"	-52.1"	-80.0"
TRAJ: 50 yds. zero	-.8"	2.3"	0.0	-7.8"	-21.3"	-40.8"	-66.5"
TRAJ: 75 yds. zero	-.8"	4.9"	5.2"	0.0	-10.9"	-27.8"	-50.9"
TRAJ: 100 yds. zero	-.8"	7.6"	10.7"	8.2"	0.0	-14.1"	-34.4"
TRAJ: 125 yds. zero	-.8"	10.4"	16.3"	16.7"	11.3"	0.0	-17.5"
TRAJ: 150 yds. zero	-.8"	13.3"	22.2"	25.4"	23.0"	14.6"	0.0
VELOCITY (fps)	600	589	578	568	558	547	537
ENERGY (ft.-lbs.)	160	154	149	143	138	133	128
TRAJ: 25 yds. zero	-.8"	0.0	-5.5"	-17.4"	-36.1"	-61.8"	-94.7"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.2"	-25.2"	-48.1"	-78.3"
TRAJ: 75 yds. zero	-.8"	5.8"	6.1"	0.0	-12.9"	-32.8"	-59.9"
TRAJ: 100 yds. zero	-.8"	9.0"	12.6"	9.7"	0.0	-16.6"	-40.5"
TRAJ: 125 yds. zero	-.8"	12.4"	19.3"	19.7"	13.3"	0.0	-20.6"
TRAJ: 150 yds. zero	-.8"	15.8"	26.1"	29.9"	27.0"	17.1"	0.0

44 CALIBER (.430" Dia.) 240 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .185 BALLISTIC COEFFICIENT: .205

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1800	1714	1632	1553	1478	1407	1340
ENERGY (ft.-lbs.)	1726	1566	1419	1285	1163	1054	957
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.7"	-2.4"	-5.0"	-8.8"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.5"	-5.2"	-8.9"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.8"	-7.4"
TRAJ: 100 yds. zero	-.8"	0.6"	1.2"	1.1"	0.0	-2.1"	-5.2"
TRAJ: 125 yds. zero	-.8"	1.0"	2.1"	2.3"	1.7"	0.0	-2.7"
TRAJ: 150 yds. zero	-.8"	1.5"	3.0"	3.7"	3.5"	2.3"	0.0
VELOCITY (fps)	1750	1666	1586	1509	1436	1368	1304
ENERGY (ft.-lbs.)	1632	1479	1340	1213	1099	997	906
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.8"	-2.6"	-5.5"	-9.5"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.7"	-5.5"	-9.6"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.5"	-4.1"	-7.8"
TRAJ: 100 yds. zero	-.8"	0.7"	1.3"	1.1"	0.0	-2.2"	-5.6"
TRAJ: 125 yds. zero	-.8"	1.1"	2.2"	2.5"	1.8"	0.0	-2.9"
TRAJ: 150 yds. zero	-.8"	1.6"	3.2"	3.9"	3.7"	2.4"	0.0
VELOCITY (fps)	1700	1618	1540	1465	1395	1329	1269
ENERGY (ft.-lbs.)	1540	1395	1263	1144	1037	942	858
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-2.9"	-6.0"	-10.3"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-0.9"	-2.9"	-5.9"	-10.2"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.6"	-4.4"	-8.4"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.2"	0.0	-2.3"	-5.9"
TRAJ: 125 yds. zero	-.8"	1.2"	2.4"	2.6"	1.9"	0.0	-3.1"
TRAJ: 150 yds. zero	-.8"	1.7"	3.4"	4.2"	3.9"	2.6"	0.0
VELOCITY (fps)	1650	1570	1494	1422	1355	1292	1235
ENERGY (ft.-lbs.)	1451	1314	1190	1078	978	889	812
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.1"	-3.3"	-6.6"	-11.2"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.1"	-6.4"	-10.9"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.7"	-4.7"	-8.9"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.3"	0.0	-2.5"	-6.3"
TRAJ: 125 yds. zero	-.8"	1.3"	2.5"	2.8"	2.0"	0.0	-3.3"
TRAJ: 150 yds. zero	-.8"	1.9"	3.6"	4.5"	4.2"	2.8"	0.0
VELOCITY (fps)	1600	1523	1449	1380	1315	1256	1202
ENERGY (ft.-lbs.)	1364	1235	1119	1014	922	840	770
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-3.6"	-7.2"	-12.1"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.3"	-6.9"	-11.7"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.0"	-9.5"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.4"	0.0	-2.7"	-6.7"
TRAJ: 125 yds. zero	-.8"	1.4"	2.7"	3.0"	2.1"	0.0	-3.5"
TRAJ: 150 yds. zero	-.8"	2.0"	3.9"	4.8"	4.5"	2.9"	0.0
VELOCITY (fps)	1550	1475	1404	1338	1276	1221	1170
ENERGY (ft.-lbs.)	1280	1159	1050	954	868	794	730
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.5"	-4.0"	-7.9"	-13.2"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.6"	-7.4"	-12.6"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.0"	-5.4"	-10.2"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0	-2.8"	-7.1"
TRAJ: 125 yds. zero	-.8"	1.6"	2.9"	3.2"	2.3"	0.0	-3.7"
TRAJ: 150 yds. zero	-.8"	2.2"	4.2"	5.1"	4.8"	3.1"	0.0
VELOCITY (fps)	1500	1428	1360	1297	1239	1187	1141
ENERGY (ft.-lbs.)	1199	1086	985	896	818	750	693
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.7"	-4.4"	-8.6"	-14.3"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-3.9"	-7.9"	-13.5"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-5.7"	-10.9"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.6"	0.0	-3.0"	-7.6"
TRAJ: 125 yds. zero	-.8"	1.7"	3.2"	3.4"	2.4"	0.0	-4.0"
TRAJ: 150 yds. zero	-.8"	2.4"	4.5"	5.4"	5.1"	3.3"	0.0
VELOCITY (fps)	1450	1381	1316	1257	1203	1155	1112
ENERGY (ft.-lbs.)	1120	1016	923	841	771	710	659
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.9"	-4.9"	-9.4"	-15.5"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.4"	-4.2"	-8.5"	-14.5"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.3"	-6.2"	-11.6"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.7"	0.0	-3.2"	-8.1"
TRAJ: 125 yds. zero	-.8"	1.9"	3.4"	3.7"	2.6"	0.0	-4.2"
TRAJ: 150 yds. zero	-.8"	2.6"	4.8"	5.8"	5.4"	3.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1400	1334	1273	1217	1168	1124	1086
ENERGY (ft.-lbs.)	1044	948	863	790	726	673	628
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.4"	-10.2"	-16.8"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.6"	-9.2"	-15.5"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.5"	-6.6"	-12.4"
TRAJ: 100 yds. zero	-.8"	1.4"	2.3"	1.9"	0.0	-3.5"	-8.7"
TRAJ: 125 yds. zero	-.8"	2.0"	3.7"	4.0"	2.8"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.8"	5.2"	6.2"	5.8"	3.7"	0.0
VELOCITY (fps)	1350	1288	1231	1179	1134	1095	1060
ENERGY (ft.-lbs.)	971	883	807	741	685	639	599
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.0"	-11.1"	-18.1"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.7"	-4.9"	-9.9"	-16.6"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.7"	-7.1"	-13.2"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.0"	0.0	-3.7"	-9.2"
TRAJ: 125 yds. zero	-.8"	2.2"	3.9"	4.2"	3.0"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	3.0"	5.5"	6.6"	6.1"	4.0"	0.0
VELOCITY (fps)	1300	1242	1189	1143	1102	1067	1036
ENERGY (ft.-lbs.)	900	822	754	696	648	607	572
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.6"	-12.1"	-19.6"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.3"	-10.6"	-17.8"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.9"	-7.6"	-14.1"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-3.9"	-9.8"
TRAJ: 125 yds. zero	-.8"	2.4"	4.2"	4.5"	3.2"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	3.3"	5.9"	7.1"	6.5"	4.2"	0.0
VELOCITY (fps)	1250	1197	1149	1108	1072	1040	1013
ENERGY (ft.-lbs.)	833	763	704	654	612	577	546
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.2"	-13.2"	-21.2"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.8"	-11.4"	-19.1"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.1"	-8.1"	-15.1"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.3"	0.0	-4.2"	-10.4"
TRAJ: 125 yds. zero	-.8"	2.6"	4.6"	4.8"	3.4"	0.0	-5.4"
TRAJ: 150 yds. zero	-.8"	3.5"	6.4"	7.5"	6.9"	4.5"	0.0
VELOCITY (fps)	1200	1152	1110	1074	1042	1014	989
ENERGY (ft.-lbs.)	767	707	657	615	579	548	521
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-7.9"	-14.4"	-22.9"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.2"	-12.3"	-20.4"
TRAJ: 75 yds. zero	-.8"	1.1"	1.5"	0.0	-3.3"	-8.7"	-16.1"
TRAJ: 100 yds. zero	-.8"	2.0"	3.1"	2.5"	0.0	-4.5"	-11.1"
TRAJ: 125 yds. zero	-.8"	2.9"	4.9"	5.2"	3.6"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.8"	6.8"	8.0"	7.4"	4.7"	0.0
VELOCITY (fps)	1150	1109	1072	1041	1013	988	965
ENERGY (ft.-lbs.)	705	655	613	577	547	520	496
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.8"	-8.7"	-15.6"	-24.8"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.7"	-13.2"	-21.9"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.3"	-17.2"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.8"	-11.8"
TRAJ: 125 yds. zero	-.8"	3.1"	5.3"	5.6"	3.8"	0.0	-6.1"
TRAJ: 150 yds. zero	-.8"	4.1"	7.3"	8.6"	7.9"	5.0"	0.0
VELOCITY (fps)	1100	1065	1034	1007	983	960	940
ENERGY (ft.-lbs.)	645	604	570	541	515	492	471
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.5"	-17.1"	-26.9"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.3"	-14.3"	-23.6"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.0"	-18.4"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.1"	-12.6"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.0"	4.1"	0.0	-6.5"
TRAJ: 150 yds. zero	-.8"	4.5"	7.9"	9.2"	8.4"	5.4"	0.0
VELOCITY (fps)	1050	1021	995	972	951	931	912
ENERGY (ft.-lbs.)	587	556	528	503	481	462	443
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.5"	-18.7"	-29.4"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-8.0"	-15.5"	-25.5"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.8"	-19.8"
TRAJ: 100 yds. zero	-.8"	2.6"	4.0"	3.1"	0.0	-5.5"	-13.6"
TRAJ: 125 yds. zero	-.8"	3.7"	6.2"	6.5"	4.4"	0.0	-6.9"
TRAJ: 150 yds. zero	-.8"	4.9"	8.5"	9.9"	9.1"	5.8"	0.0

BALISTICS TABLES: SHORT RANGE PISTOL

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	976	955	934	916	898	881
ENERGY (ft.-lbs.)	533	508	485	465	447	430	414
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.3"	-11.7"	-20.6"	-32.2"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.7"	-16.9"	-27.8"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.7"	-21.6"
TRAJ: 100 yds. zero	-.8"	2.9"	4.4"	3.4"	0.0	-6.0"	-14.7"
TRAJ: 125 yds. zero	-.8"	4.1"	6.8"	7.0"	4.8"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.4"	9.3"	10.8"	9.8"	6.2"	0.0
VELOCITY (fps)	950	930	912	894	878	862	847
ENERGY (ft.-lbs.)	481	461	443	426	410	396	382
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.0"	-13.1"	-22.9"	-35.7"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.6"	-18.6"	-30.6"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.0"	-12.9"	-23.6"
TRAJ: 100 yds. zero	-.8"	3.3"	4.8"	3.8"	0.0	-6.6"	-16.1"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.7"	5.3"	0.0	-8.2"
TRAJ: 150 yds. zero	-.8"	6.0"	10.2"	11.8"	10.7"	6.8"	0.0
VELOCITY (fps)	900	883	867	852	837	823	809
ENERGY (ft.-lbs.)	432	416	401	387	373	361	349
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.7"	-25.7"	-39.8"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.8"	-20.7"	-33.9"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.3"	-26.1"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.3"	-17.8"
TRAJ: 125 yds. zero	-.8"	5.1"	8.3"	8.6"	5.8"	0.0	-9.0"
TRAJ: 150 yds. zero	-.8"	6.6"	11.3"	13.1"	11.8"	7.5"	0.0
VELOCITY (fps)	850	835	821	808	794	782	769
ENERGY (ft.-lbs.)	385	372	359	347	336	325	315
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.8"	-16.7"	-29.0"	-44.8"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.1"	-23.2"	-37.9"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-15.9"	-29.2"
TRAJ: 100 yds. zero	-.8"	4.2"	6.0"	4.7"	0.0	-8.1"	-19.8"
TRAJ: 125 yds. zero	-.8"	5.8"	9.3"	9.6"	6.5"	0.0	-10.0"
TRAJ: 150 yds. zero	-.8"	7.5"	12.6"	14.6"	13.2"	8.4"	0.0
VELOCITY (fps)	800	787	774	762	750	738	727
ENERGY (ft.-lbs.)	341	330	320	309	300	291	282
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.0"	-19.1"	-33.0"	-50.9"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.7"	-26.2"	-42.8"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.0"	-18.0"	-32.9"
TRAJ: 100 yds. zero	-.8"	4.8"	6.8"	5.3"	0.0	-9.2"	-22.3"
TRAJ: 125 yds. zero	-.8"	6.6"	10.5"	10.8"	7.3"	0.0	-11.3"
TRAJ: 150 yds. zero	-.8"	8.5"	14.3"	16.4"	14.9"	9.4"	0.0
VELOCITY (fps)	750	738	727	716	705	694	683
ENERGY (ft.-lbs.)	300	290	282	273	265	257	249
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.5"	-22.0"	-37.9"	-58.3"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.6"	-30.0"	-48.8"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.0"	-20.4"	-37.4"
TRAJ: 100 yds. zero	-.8"	5.5"	7.8"	6.0"	0.0	-10.4"	-25.3"
TRAJ: 125 yds. zero	-.8"	7.6"	12.0"	12.3"	8.3"	0.0	-12.8"
TRAJ: 150 yds. zero	-.8"	9.7"	16.3"	18.7"	16.9"	10.7"	0.0
VELOCITY (fps)	700	689	679	669	659	649	639
ENERGY (ft.-lbs.)	261	253	246	238	231	224	217
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.2"	-25.6"	-43.9"	-67.4"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.6"	-18.1"	-34.5"	-56.1"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.3"	-23.5"	-43.0"
TRAJ: 100 yds. zero	-.8"	6.4"	9.0"	6.9"	0.0	-11.9"	-29.1"
TRAJ: 125 yds. zero	-.8"	8.8"	13.8"	14.1"	9.6"	0.0	-14.7"
TRAJ: 150 yds. zero	-.8"	11.2"	18.7"	21.5"	19.4"	12.3"	0.0
VELOCITY (fps)	650	640	631	621	612	603	594
ENERGY (ft.-lbs.)	225	218	212	206	199	193	188
TRAJ: 25 yds. zero	-.8"	0.0	-4.5"	-14.4"	-30.1"	-51.5"	-78.9"
TRAJ: 50 yds. zero	-.8"	2.2"	0.0	-7.7"	-21.1"	-40.2"	-65.4"
TRAJ: 75 yds. zero	-.8"	4.8"	5.1"	0.0	-10.8"	-27.4"	-50.0"
TRAJ: 100 yds. zero	-.8"	7.5"	10.5"	8.1"	0.0	-13.9"	-33.8"
TRAJ: 125 yds. zero	-.8"	10.3"	16.1"	16.4"	11.1"	0.0	-17.1"
TRAJ: 150 yds. zero	-.8"	13.1"	21.8"	25.0"	22.5"	14.2"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	600	591	582	573	565	556	548
ENERGY (ft.-lbs.)	192	186	181	175	170	165	160
TRAJ: 25 yds. zero	-.8"	0.0	-5.4"	-17.3"	-35.7"	-61.0"	-93.2"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.1"	-24.9"	-47.4"	-77.0"
TRAJ: 75 yds. zero	-.8"	5.8"	6.1"	0.0	-12.7"	-32.2"	-58.7"
TRAJ: 100 yds. zero	-.8"	8.9"	12.4"	9.5"	0.0	-16.3"	-39.7"
TRAJ: 125 yds. zero	-.8"	12.2"	19.0"	19.3"	13.1"	0.0	-20.1"
TRAJ: 150 yds. zero	-.8"	15.5"	25.7"	29.3"	26.4"	16.7"	0.0

44 CALIBER (.430" Dia.) 240 GRAIN JACKETED TRUNCATED CONE SILHOUETTE
SECTIONAL DENSITY: .185 BALLISTIC COEFFICIENT: .174

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1800	1699	1603	1512	1427	1347	1275
ENERGY (ft.-lbs.)	1726	1539	1370	1218	1084	967	866
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.8"	-2.5"	-5.3"	-9.3"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.6"	-5.4"	-9.5"
TRAJ: 75 yds. zero	-.8"	0.3"	0.5"	0.0	-1.5"	-4.1"	-7.8"
TRAJ: 100 yds. zero	-.8"	0.6"	1.3"	1.1"	0.0	-2.2"	-5.6"
TRAJ: 125 yds. zero	-.8"	1.1"	2.2"	2.4"	1.8"	0.0	-3.0"
TRAJ: 150 yds. zero	-.8"	1.6"	3.2"	3.9"	3.7"	2.5"	0.0
VELOCITY (fps)	1750	1652	1558	1469	1387	1311	1242
ENERGY (ft.-lbs.)	1632	1453	1293	1150	1025	915	821
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.9"	-2.8"	-5.8"	-10.1"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.8"	-5.8"	-10.1"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.6"	-4.3"	-8.3"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.2"	0.0	-2.3"	-5.9"
TRAJ: 125 yds. zero	-.8"	1.2"	2.3"	2.6"	1.9"	0.0	-3.1"
TRAJ: 150 yds. zero	-.8"	1.7"	3.4"	4.2"	4.0"	2.6"	0.0
VELOCITY (fps)	1700	1604	1513	1427	1348	1275	1210
ENERGY (ft.-lbs.)	1540	1371	1219	1085	968	866	780
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.1"	-6.4"	-11.0"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.0"	-6.2"	-10.8"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.6"	-8.9"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.5"	-6.3"
TRAJ: 125 yds. zero	-.8"	1.3"	2.5"	2.8"	2.0"	0.0	-3.3"
TRAJ: 150 yds. zero	-.8"	1.8"	3.6"	4.4"	4.2"	2.8"	0.0
VELOCITY (fps)	1650	1556	1468	1386	1309	1241	1180
ENERGY (ft.-lbs.)	1451	1291	1148	1023	914	820	741
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.2"	-3.4"	-6.9"	-11.9"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.1"	-3.2"	-6.7"	-11.6"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.9"	-9.5"
TRAJ: 100 yds. zero	-.8"	0.9"	1.6"	1.4"	0.0	-2.6"	-6.7"
TRAJ: 125 yds. zero	-.8"	1.4"	2.7"	3.0"	2.1"	0.0	-3.5"
TRAJ: 150 yds. zero	-.8"	2.0"	3.9"	4.7"	4.5"	2.9"	0.0
VELOCITY (fps)	1600	1509	1424	1345	1272	1207	1151
ENERGY (ft.-lbs.)	1364	1213	1080	963	862	777	706
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.4"	-3.8"	-7.6"	-12.8"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.5"	-7.2"	-12.4"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.0"	-5.3"	-10.1"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0	-2.8"	-7.1"
TRAJ: 125 yds. zero	-.8"	1.5"	2.9"	3.2"	2.3"	0.0	-3.7"
TRAJ: 150 yds. zero	-.8"	2.1"	4.1"	5.0"	4.8"	3.1"	0.0
VELOCITY (fps)	1550	1462	1380	1304	1236	1176	1124
ENERGY (ft.-lbs.)	1280	1139	1015	907	814	736	673
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.2"	-8.3"	-13.9"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.8"	-7.7"	-13.2"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.6"	-10.7"
TRAJ: 100 yds. zero	-.8"	1.1"	1.9"	1.6"	0.0	-3.0"	-7.6"
TRAJ: 125 yds. zero	-.8"	1.7"	3.1"	3.4"	2.4"	0.0	-4.0"
TRAJ: 150 yds. zero	-.8"	2.3"	4.4"	5.4"	5.1"	3.3"	0.0
VELOCITY (fps)	1500	1415	1337	1265	1201	1145	1098
ENERGY (ft.-lbs.)	1199	1067	952	853	769	699	642
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.8"	-4.6"	-9.0"	-15.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.4"	-4.1"	-8.3"	-14.2"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.3"	-6.0"	-11.5"
TRAJ: 100 yds. zero	-.8"	1.2"	2.0"	1.7"	0.0	-3.2"	-8.1"
TRAJ: 125 yds. zero	-.8"	1.8"	3.3"	3.6"	2.6"	0.0	-4.2"
TRAJ: 150 yds. zero	-.8"	2.5"	4.7"	5.7"	5.4"	3.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1450	1369	1294	1227	1168	1117	1073
ENERGY (ft.-lbs.)	1120	998	892	802	727	665	614
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.0"	-5.1"	-9.8"	-16.2"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.4"	-8.9"	-15.2"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.4"	-6.4"	-12.2"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.4"	-8.6"
TRAJ: 125 yds. zero	-.8"	2.0"	3.6"	3.9"	2.7"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.7"	5.1"	6.1"	5.7"	3.7"	0.0
VELOCITY (fps)	1400	1323	1253	1190	1136	1090	1050
ENERGY (ft.-lbs.)	1044	932	836	755	687	633	588
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.3"	-5.6"	-10.7"	-17.5"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.6"	-16.2"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.6"	-6.9"	-13.0"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	2.0"	0.0	-3.6"	-9.1"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.1"	2.9"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.9"	5.4"	6.5"	6.1"	3.9"	0.0
VELOCITY (fps)	1350	1277	1212	1155	1106	1064	1028
ENERGY (ft.-lbs.)	971	869	782	710	651	603	563
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.2"	-11.6"	-18.9"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.7"	-5.1"	-10.3"	-17.3"
TRAJ: 75 yds. zero	-.8"	0.8"	1.2"	0.0	-2.8"	-7.4"	-13.8"
TRAJ: 100 yds. zero	-.8"	1.5"	2.6"	2.1"	0.0	-3.9"	-9.6"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.4"	3.1"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.2"	5.8"	6.9"	6.4"	4.2"	0.0
VELOCITY (fps)	1300	1232	1172	1121	1077	1039	1007
ENERGY (ft.-lbs.)	900	809	732	669	618	576	540
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.8"	-12.6"	-20.4"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.5"	-11.0"	-18.5"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.0"	-7.8"	-14.7"
TRAJ: 100 yds. zero	-.8"	1.7"	2.8"	2.2"	0.0	-4.1"	-10.2"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.3"	0.0	-5.3"
TRAJ: 150 yds. zero	-.8"	3.4"	6.2"	7.3"	6.8"	4.4"	0.0
VELOCITY (fps)	1250	1188	1134	1088	1049	1016	986
ENERGY (ft.-lbs.)	833	752	685	631	586	549	518
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.2"	-7.4"	-13.6"	-22.0"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-5.9"	-11.8"	-19.7"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.2"	-8.4"	-15.6"
TRAJ: 100 yds. zero	-.8"	1.9"	3.0"	2.4"	0.0	-4.4"	-10.8"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.0"	3.5"	0.0	-5.6"
TRAJ: 150 yds. zero	-.8"	3.7"	6.6"	7.8"	7.2"	4.7"	0.0
VELOCITY (fps)	1200	1144	1097	1057	1022	992	965
ENERGY (ft.-lbs.)	767	698	641	595	557	524	496
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.5"	-8.1"	-14.8"	-23.6"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.6"	-21.1"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.4"	-8.9"	-16.6"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.6"	-11.5"
TRAJ: 125 yds. zero	-.8"	3.0"	5.1"	5.4"	3.7"	0.0	-5.9"
TRAJ: 150 yds. zero	-.8"	3.9"	7.0"	8.3"	7.6"	4.9"	0.0
VELOCITY (fps)	1150	1102	1061	1026	995	968	943
ENERGY (ft.-lbs.)	705	647	599	560	527	499	474
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.9"	-16.0"	-25.5"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.9"	-13.6"	-22.5"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.7"	-9.5"	-17.7"
TRAJ: 100 yds. zero	-.8"	2.2"	3.5"	2.8"	0.0	-4.9"	-12.2"
TRAJ: 125 yds. zero	-.8"	3.2"	5.4"	5.7"	4.0"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.3"	7.5"	8.8"	8.1"	5.2"	0.0
VELOCITY (fps)	1100	1059	1024	994	967	942	919
ENERGY (ft.-lbs.)	645	598	559	526	498	473	450
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.7"	-17.4"	-27.6"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.5"	-14.6"	-24.2"
TRAJ: 75 yds. zero	-.8"	1.4"	1.8"	0.0	-4.0"	-10.2"	-18.9"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	3.0"	0.0	-5.3"	-13.0"
TRAJ: 125 yds. zero	-.8"	3.5"	5.8"	6.1"	4.2"	0.0	-6.7"
TRAJ: 150 yds. zero	-.8"	4.6"	8.1"	9.5"	8.7"	5.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1050	1016	987	960	936	914	893
ENERGY (ft.-lbs.)	587	550	519	491	467	445	425
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.7"	-19.1"	-30.0"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-2.9"	-8.1"	-15.8"	-26.1"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.3"	-11.0"	-20.3"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.2"	0.0	-5.7"	-13.9"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.6"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	5.0"	8.7"	10.2"	9.3"	5.9"	0.0
VELOCITY (fps)	1000	972	947	924	903	883	864
ENERGY (ft.-lbs.)	533	504	478	455	434	415	398
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.9"	-21.0"	-32.9"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.2"	-8.9"	-17.2"	-28.4"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.7"	-12.0"	-22.1"
TRAJ: 100 yds. zero	-.8"	3.0"	4.4"	3.5"	0.0	-6.1"	-15.1"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.2"	4.9"	0.0	-7.7"
TRAJ: 150 yds. zero	-.8"	5.5"	9.5"	11.0"	10.1"	6.4"	0.0
VELOCITY (fps)	950	927	905	885	866	848	831
ENERGY (ft.-lbs.)	481	458	437	418	400	383	368
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.2"	-23.3"	-36.3"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.8"	-19.0"	-31.1"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.1"	-13.1"	-24.1"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.8"	0.0	-6.7"	-16.5"
TRAJ: 125 yds. zero	-.8"	4.7"	7.6"	7.9"	5.4"	0.0	-8.4"
TRAJ: 150 yds. zero	-.8"	6.1"	10.4"	12.1"	11.0"	7.0"	0.0
VELOCITY (fps)	900	880	862	844	827	811	795
ENERGY (ft.-lbs.)	432	413	396	379	364	350	337
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.9"	-26.1"	-40.5"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.9"	-21.0"	-34.5"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.7"	-14.5"	-26.7"
TRAJ: 100 yds. zero	-.8"	3.7"	5.5"	4.2"	0.0	-7.4"	-18.2"
TRAJ: 125 yds. zero	-.8"	5.2"	8.4"	8.7"	5.9"	0.0	-9.3"
TRAJ: 150 yds. zero	-.8"	6.8"	11.5"	13.3"	12.1"	7.7"	0.0
VELOCITY (fps)	850	833	816	800	785	770	756
ENERGY (ft.-lbs.)	385	370	355	341	328	316	305
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.9"	-29.4"	-45.6"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.2"	-23.6"	-38.6"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-16.2"	-29.7"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.8"	0.0	-8.3"	-20.2"
TRAJ: 125 yds. zero	-.8"	5.9"	9.4"	9.7"	6.6"	0.0	-10.3"
TRAJ: 150 yds. zero	-.8"	7.6"	12.9"	14.9"	13.5"	8.6"	0.0
VELOCITY (fps)	800	785	770	756	742	728	715
ENERGY (ft.-lbs.)	341	328	316	304	293	283	272
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.1"	-19.3"	-33.4"	-51.7"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.9"	-26.6"	-43.5"
TRAJ: 75 yds. zero	-.8"	3.0"	3.4"	0.0	-7.1"	-18.2"	-33.4"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.4"	0.0	-9.3"	-22.7"
TRAJ: 125 yds. zero	-.8"	6.7"	10.7"	10.9"	7.4"	0.0	-11.6"
TRAJ: 150 yds. zero	-.8"	8.6"	14.5"	16.7"	15.2"	9.6"	0.0
VELOCITY (fps)	750	736	723	710	697	685	672
ENERGY (ft.-lbs.)	300	289	278	268	259	250	241
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.6"	-22.2"	-38.4"	-59.1"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.8"	-30.4"	-49.5"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.2"	-20.8"	-38.0"
TRAJ: 100 yds. zero	-.8"	5.6"	7.9"	6.1"	0.0	-10.6"	-25.8"
TRAJ: 125 yds. zero	-.8"	7.7"	12.1"	12.5"	8.5"	0.0	-13.1"
TRAJ: 150 yds. zero	-.8"	9.9"	16.5"	19.0"	17.2"	10.9"	0.0
VELOCITY (fps)	700	687	675	663	651	640	629
ENERGY (ft.-lbs.)	261	252	243	234	226	218	211
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.4"	-25.8"	-44.4"	-68.3"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.7"	-18.2"	-34.9"	-57.0"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.4"	-23.8"	-43.6"
TRAJ: 100 yds. zero	-.8"	6.5"	9.1"	7.0"	0.0	-12.1"	-29.6"
TRAJ: 125 yds. zero	-.8"	8.9"	14.0"	14.3"	9.7"	0.0	-15.0"
TRAJ: 150 yds. zero	-.8"	11.4"	19.0"	21.8"	19.7"	12.5"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	650	638	627	616	605	594	584
ENERGY (ft.-lbs.)	225	217	210	202	195	188	182
TRAJ: 25 yds. zero	-.8"	0.0	-4.5"	-14.6"	-30.4"	-52.1"	-79.9"
TRAJ: 50 yds. zero	-.8"	2.3"	0.0	-7.8"	-21.3"	-40.8"	-66.3"
TRAJ: 75 yds. zero	-.8"	4.9"	5.2"	0.0	-10.9"	-27.8"	-50.7"
TRAJ: 100 yds. zero	-.8"	7.6"	10.7"	8.2"	0.0	-14.1"	-34.3"
TRAJ: 125 yds. zero	-.8"	10.4"	16.3"	16.7"	11.3"	0.0	-17.4"
TRAJ: 150 yds. zero	-.8"	13.3"	22.1"	25.4"	22.9"	14.5"	0.0
VELOCITY (fps)	600	589	579	569	559	549	539
ENERGY (ft.-lbs.)	192	185	179	172	166	160	155
TRAJ: 25 yds. zero	-.8"	0.0	-5.5"	-17.4"	-36.0"	-61.6"	-94.5"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.2"	-25.1"	-48.0"	-78.1"
TRAJ: 75 yds. zero	-.8"	5.8"	6.1"	0.0	-12.9"	-32.7"	-59.7"
TRAJ: 100 yds. zero	-.8"	9.0"	12.6"	9.6"	0.0	-16.6"	-40.4"
TRAJ: 125 yds. zero	-.8"	12.3"	19.2"	19.6"	13.3"	0.0	-20.5"
TRAJ: 150 yds. zero	-.8"	15.7"	26.0"	29.8"	26.9"	17.1"	0.0

44 CALIBER (.430" Dia.) 300 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .232 BALLISTIC COEFFICIENT: .180

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1600	1512	1429	1352	1281	1218	1161
ENERGY (ft.-lbs.)	1705	1523	1361	1218	1094	987	898
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.4"	-3.8"	-7.5"	-12.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.5"	-7.1"	-12.2"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-1.9"	-5.2"	-10.0"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.5"	0.0	-2.8"	-7.0"
TRAJ: 125 yds. zero	-.8"	1.5"	2.8"	3.1"	2.2"	0.0	-3.7"
TRAJ: 150 yds. zero	-.8"	2.1"	4.1"	5.0"	4.7"	3.1"	0.0
VELOCITY (fps)	1550	1465	1385	1312	1245	1185	1133
ENERGY (ft.-lbs.)	1600	1429	1278	1146	1032	935	855
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.2"	-8.2"	-13.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.7"	-7.6"	-13.1"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.6"	-10.6"
TRAJ: 100 yds. zero	-.8"	1.0"	1.9"	1.6"	0.0	-3.0"	-7.5"
TRAJ: 125 yds. zero	-.8"	1.6"	3.1"	3.3"	2.4"	0.0	-3.9"
TRAJ: 150 yds. zero	-.8"	2.3"	4.4"	5.3"	5.0"	3.3"	0.0
VELOCITY (fps)	1500	1418	1342	1272	1209	1154	1107
ENERGY (ft.-lbs.)	1499	1339	1199	1078	974	887	816
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.8"	-4.6"	-8.9"	-14.9"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.0"	-8.2"	-14.0"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-6.0"	-11.3"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.2"	-8.0"
TRAJ: 125 yds. zero	-.8"	1.8"	3.3"	3.6"	2.5"	0.0	-4.2"
TRAJ: 150 yds. zero	-.8"	2.5"	4.7"	5.7"	5.3"	3.5"	0.0
VELOCITY (fps)	1450	1371	1299	1233	1175	1125	1082
ENERGY (ft.-lbs.)	1400	1253	1124	1013	920	842	779
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.0"	-5.1"	-9.7"	-16.1"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.4"	-8.8"	-15.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.4"	-6.4"	-12.1"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.4"	-8.5"
TRAJ: 125 yds. zero	-.8"	1.9"	3.5"	3.8"	2.7"	0.0	-4.4"
TRAJ: 150 yds. zero	-.8"	2.7"	5.0"	6.0"	5.6"	3.7"	0.0
VELOCITY (fps)	1400	1325	1257	1196	1143	1097	1058
ENERGY (ft.-lbs.)	1305	1170	1052	953	870	801	745
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.6"	-10.6"	-17.4"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.5"	-16.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.1"	0.0	-2.6"	-6.8"	-12.9"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	1.9"	0.0	-3.6"	-9.0"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.1"	2.9"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.9"	5.3"	6.4"	6.0"	3.9"	0.0
VELOCITY (fps)	1350	1279	1216	1160	1112	1070	1035
ENERGY (ft.-lbs.)	1214	1090	985	896	823	763	714
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.1"	-11.5"	-18.7"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.7"	-5.1"	-10.2"	-17.2"
TRAJ: 75 yds. zero	-.8"	0.8"	1.2"	0.0	-2.8"	-7.3"	-13.7"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0	-3.8"	-9.5"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.4"	3.1"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.1"	5.7"	6.8"	6.4"	4.1"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1300	1234	1176	1125	1082	1045	1013
ENERGY (ft.-lbs.)	1126	1015	921	844	780	728	684
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.7"	-12.5"	-20.2"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.5"	-10.9"	-18.3"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.0"	-7.8"	-14.6"
TRAJ: 100 yds. zero	-.8"	1.7"	2.7"	2.2"	0.0	-4.1"	-10.1"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.3"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.4"	6.1"	7.3"	6.7"	4.4"	0.0
VELOCITY (fps)	1250	1190	1137	1092	1054	1021	992
ENERGY (ft.-lbs.)	1041	943	861	795	740	694	655
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.4"	-13.5"	-21.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.9"	-11.7"	-19.6"
TRAJ: 75 yds. zero	-.8"	1.0"	1.4"	0.0	-3.2"	-8.3"	-15.5"
TRAJ: 100 yds. zero	-.8"	1.8"	3.0"	2.4"	0.0	-4.3"	-10.7"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.0"	3.5"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.7"	7.2"	4.6"	0.0
VELOCITY (fps)	1200	1146	1100	1060	1026	997	970
ENERGY (ft.-lbs.)	959	875	806	749	702	662	627
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.5"	-8.1"	-14.7"	-23.5"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.6"	-20.9"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.4"	-8.9"	-16.5"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.6"	-11.4"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.3"	3.7"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	3.9"	7.0"	8.2"	7.6"	4.9"	0.0
VELOCITY (fps)	1150	1103	1063	1029	999	972	948
ENERGY (ft.-lbs.)	881	811	753	705	664	629	598
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.8"	-16.0"	-25.4"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.9"	-13.5"	-22.4"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.7"	-9.5"	-17.6"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.9"	-12.1"
TRAJ: 125 yds. zero	-.8"	3.2"	5.4"	5.7"	3.9"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.2"	7.5"	8.8"	8.1"	5.2"	0.0
VELOCITY (fps)	1100	1061	1027	997	970	946	924
ENERGY (ft.-lbs.)	806	749	702	662	627	596	569
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.7"	-17.4"	-27.4"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.4"	-14.5"	-24.1"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.2"	-18.8"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.3"	-12.9"
TRAJ: 125 yds. zero	-.8"	3.5"	5.8"	6.1"	4.2"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.6"	8.0"	9.4"	8.6"	5.5"	0.0
VELOCITY (fps)	1050	1017	989	963	939	918	897
ENERGY (ft.-lbs.)	734	689	651	617	588	561	536
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.7"	-19.0"	-29.9"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.9"	-8.1"	-15.7"	-26.0"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-11.0"	-20.2"
TRAJ: 100 yds. zero	-.8"	2.7"	4.0"	3.2"	0.0	-5.6"	-13.9"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.6"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	5.0"	8.7"	10.1"	9.2"	5.9"	0.0
VELOCITY (fps)	1000	973	949	926	906	886	868
ENERGY (ft.-lbs.)	666	631	600	572	546	523	502
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.8"	-20.9"	-32.7"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.2"	-8.8"	-17.2"	-28.3"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.9"	-21.9"
TRAJ: 100 yds. zero	-.8"	3.0"	4.4"	3.5"	0.0	-6.1"	-15.0"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.1"	4.9"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	5.5"	9.4"	11.0"	10.0"	6.4"	0.0

44 CALIBER (.430" Dia.) 240 GRAIN LEAD SEMI-WADCUTTER
SECTIONAL DENSITY: .185 BALLISTIC COEFFICIENT: .182

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1200	1147	1101	1062	1028	998	972
ENERGY (ft.-lbs.)	767	701	646	600	563	531	503
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.5"	-8.1"	-14.7"	-23.4"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.5"	-20.9"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.4"	-8.8"	-16.5"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.6"	-11.4"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.3"	3.7"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	3.9"	7.0"	8.2"	7.6"	4.9"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1150	1104	1064	1030	1000	973	949
ENERGY (ft.-lbs.)	705	649	603	565	533	505	480
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.8"	-15.9"	-25.3"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.9"	-13.5"	-22.4"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.5"	-17.5"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.9"	-12.1"
TRAJ: 125 yds. zero	-.8"	3.2"	5.4"	5.7"	3.9"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.2"	7.5"	8.8"	8.1"	5.2"	0.0
VELOCITY (fps)	1100	1061	1027	998	971	947	925
ENERGY (ft.-lbs.)	645	600	562	530	503	478	456
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.7"	-17.3"	-27.4"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.4"	-14.5"	-24.0"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.1"	-18.8"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.2"	-12.9"
TRAJ: 125 yds. zero	-.8"	3.5"	5.8"	6.1"	4.2"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.6"	8.0"	9.4"	8.6"	5.5"	0.0
VELOCITY (fps)	1050	1018	989	964	940	919	899
ENERGY (ft.-lbs.)	587	552	521	495	471	450	430
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.7"	-19.0"	-29.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.9"	-8.1"	-15.7"	-25.9"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.9"	-20.2"
TRAJ: 100 yds. zero	-.8"	2.7"	4.0"	3.2"	0.0	-5.6"	-13.8"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.6"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	5.0"	8.6"	10.1"	9.2"	5.9"	0.0
VELOCITY (fps)	1000	973	949	927	907	887	869
ENERGY (ft.-lbs.)	533	505	480	458	438	419	402
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.8"	-20.9"	-32.7"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.2"	-8.8"	-17.2"	-28.2"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.9"	-21.9"
TRAJ: 100 yds. zero	-.8"	3.0"	4.4"	3.5"	0.0	-6.1"	-15.0"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.1"	4.9"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	5.4"	9.4"	11.0"	10.0"	6.4"	0.0
VELOCITY (fps)	950	928	907	888	870	852	836
ENERGY (ft.-lbs.)	481	459	438	420	403	387	372
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.2"	-23.2"	-36.2"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.7"	-18.9"	-31.0"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.1"	-13.0"	-24.0"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.8"	0.0	-6.7"	-16.4"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.8"	5.4"	0.0	-8.3"
TRAJ: 150 yds. zero	-.8"	6.0"	10.3"	12.0"	10.9"	6.9"	0.0
VELOCITY (fps)	900	881	863	846	830	814	799
ENERGY (ft.-lbs.)	432	414	397	381	367	353	340
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.8"	-26.0"	-40.3"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.9"	-21.0"	-34.3"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.4"	-26.5"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.4"	-18.0"
TRAJ: 125 yds. zero	-.8"	5.2"	8.4"	8.7"	5.9"	0.0	-9.2"
TRAJ: 150 yds. zero	-.8"	6.7"	11.4"	13.2"	12.0"	7.6"	0.0
VELOCITY (fps)	850	834	818	803	788	774	760
ENERGY (ft.-lbs.)	385	370	356	343	331	319	308
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.8"	-29.3"	-45.3"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.2"	-23.5"	-38.4"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-16.1"	-29.5"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.7"	0.0	-8.2"	-20.1"
TRAJ: 125 yds. zero	-.8"	5.9"	9.4"	9.7"	6.6"	0.0	-10.2"
TRAJ: 150 yds. zero	-.8"	7.6"	12.8"	14.8"	13.4"	8.5"	0.0
VELOCITY (fps)	800	785	771	758	744	731	718
ENERGY (ft.-lbs.)	341	329	317	306	295	285	275
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.1"	-19.2"	-33.3"	-51.4"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.8"	-26.5"	-43.3"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.1"	-18.2"	-33.3"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.3"	0.0	-9.2"	-22.6"
TRAJ: 125 yds. zero	-.8"	6.7"	10.6"	10.9"	7.4"	0.0	-11.5"
TRAJ: 150 yds. zero	-.8"	8.6"	14.4"	16.6"	15.1"	9.6"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	750	737	724	711	699	687	676
ENERGY (ft.-lbs.)	300	289	279	270	261	252	243
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.5"	-22.2"	-38.2"	-58.9"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.8"	-30.2"	-49.3"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.1"	-20.7"	-37.8"
TRAJ: 100 yds. zero	-.8"	5.5"	7.9"	6.1"	0.0	-10.5"	-25.7"
TRAJ: 125 yds. zero	-.8"	7.6"	12.1"	12.4"	8.4"	0.0	-13.0"
TRAJ: 150 yds. zero	-.8"	9.8"	16.4"	18.9"	17.1"	10.9"	0.0
VELOCITY (fps)	700	688	676	665	653	642	632
ENERGY (ft.-lbs.)	261	252	244	235	228	220	212
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.3"	-25.8"	-44.3"	-68.1"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.6"	-18.2"	-34.8"	-56.7"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.3"	-23.8"	-43.4"
TRAJ: 100 yds. zero	-.8"	6.4"	9.1"	7.0"	0.0	-12.1"	-29.4"
TRAJ: 125 yds. zero	-.8"	8.9"	13.9"	14.3"	9.7"	0.0	-14.9"
TRAJ: 150 yds. zero	-.8"	11.3"	18.9"	21.7"	19.6"	12.4"	0.0
VELOCITY (fps)	650	639	628	618	607	597	587
ENERGY (ft.-lbs.)	225	218	210	203	196	190	183
TRAJ: 25 yds. zero	-.8"	0.0	-4.5"	-14.5"	-30.3"	-51.9"	-79.6"
TRAJ: 50 yds. zero	-.8"	2.3"	0.0	-7.8"	-21.2"	-40.6"	-66.0"
TRAJ: 75 yds. zero	-.8"	4.8"	5.2"	0.0	-10.9"	-27.7"	-50.5"
TRAJ: 100 yds. zero	-.8"	7.6"	10.6"	8.2"	0.0	-14.1"	-34.2"
TRAJ: 125 yds. zero	-.8"	10.4"	16.2"	16.6"	11.2"	0.0	-17.3"
TRAJ: 150 yds. zero	-.8"	13.3"	22.0"	25.3"	22.8"	14.4"	0.0
VELOCITY (fps)	600	590	580	570	560	551	541
ENERGY (ft.-lbs.)	192	185	179	173	167	162	156
TRAJ: 25 yds. zero	-.8"	0.0	-5.4"	-17.3"	-35.9"	-61.4"	-94.1"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.2"	-25.0"	-47.8"	-77.8"
TRAJ: 75 yds. zero	-.8"	5.8"	6.1"	0.0	-12.8"	-32.5"	-59.5"
TRAJ: 100 yds. zero	-.8"	9.0"	12.5"	9.6"	0.0	-16.5"	-40.2"
TRAJ: 125 yds. zero	-.8"	12.3"	19.1"	19.5"	13.2"	0.0	-20.4"
TRAJ: 150 yds. zero	-.8"	15.7"	25.9"	29.7"	26.8"	17.0"	0.0

44 CALIBER (.430" Dia.) 240 GRAIN LEAD SEMI-WADCUTTER HOLLOW POINT
SECTIONAL DENSITY: .185 BALLISTIC COEFFICIENT: .204

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1200	1152	1110	1074	1042	1014	989
ENERGY (ft.-lbs.)	767	707	657	614	578	548	521
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-7.9"	-14.4"	-23.0"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.2"	-12.3"	-20.4"
TRAJ: 75 yds. zero	-.8"	1.1"	1.5"	0.0	-3.3"	-8.7"	-16.1"
TRAJ: 100 yds. zero	-.8"	2.0"	3.1"	2.5"	0.0	-4.5"	-11.1"
TRAJ: 125 yds. zero	-.8"	2.9"	4.9"	5.2"	3.6"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.8"	6.8"	8.0"	7.4"	4.7"	0.0
VELOCITY (fps)	1150	1108	1072	1040	1012	987	965
ENERGY (ft.-lbs.)	705	654	612	577	546	519	496
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.8"	-8.7"	-15.7"	-24.8"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.7"	-13.2"	-21.9"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.3"	-17.2"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.8"	-11.8"
TRAJ: 125 yds. zero	-.8"	3.1"	5.3"	5.6"	3.8"	0.0	-6.1"
TRAJ: 150 yds. zero	-.8"	4.1"	7.3"	8.6"	7.9"	5.0"	0.0
VELOCITY (fps)	1100	1065	1034	1007	982	960	939
ENERGY (ft.-lbs.)	645	604	570	540	514	491	470
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.5"	-17.1"	-26.9"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.3"	-14.3"	-23.6"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.0"	-18.4"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.1"	-12.6"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.0"	4.1"	0.0	-6.5"
TRAJ: 150 yds. zero	-.8"	4.5"	7.9"	9.2"	8.4"	5.4"	0.0
VELOCITY (fps)	1050	1021	995	972	950	930	912
ENERGY (ft.-lbs.)	587	555	528	503	481	461	443
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.5"	-18.7"	-29.4"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-8.0"	-15.5"	-25.5"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.8"	-19.9"
TRAJ: 100 yds. zero	-.8"	2.6"	4.0"	3.1"	0.0	-5.5"	-13.6"
TRAJ: 125 yds. zero	-.8"	3.7"	6.2"	6.5"	4.4"	0.0	-6.9"
TRAJ: 150 yds. zero	-.8"	4.9"	8.5"	9.9"	9.1"	5.8"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	976	954	934	915	897	881
ENERGY (ft.-lbs.)	533	508	485	465	446	429	413
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.3"	-11.7"	-20.6"	-32.2"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.7"	-16.9"	-27.8"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.7"	-21.6"
TRAJ: 100 yds. zero	-.8"	2.9"	4.4"	3.4"	0.0	-6.0"	-14.7"
TRAJ: 125 yds. zero	-.8"	4.1"	6.8"	7.0"	4.8"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.4"	9.3"	10.8"	9.8"	6.2"	0.0
VELOCITY (fps)	950	930	911	894	877	861	846
ENERGY (ft.-lbs.)	481	461	443	426	410	395	382
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.0"	-13.1"	-22.9"	-35.7"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.7"	-18.7"	-30.6"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.0"	-12.9"	-23.6"
TRAJ: 100 yds. zero	-.8"	3.3"	4.8"	3.8"	0.0	-6.6"	-16.1"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.7"	5.3"	0.0	-8.2"
TRAJ: 150 yds. zero	-.8"	6.0"	10.2"	11.8"	10.7"	6.8"	0.0
VELOCITY (fps)	900	883	867	852	837	823	809
ENERGY (ft.-lbs.)	432	416	400	386	373	360	348
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.7"	-25.7"	-39.9"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.8"	-20.7"	-33.9"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.3"	-26.1"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.3"	-17.8"
TRAJ: 125 yds. zero	-.8"	5.1"	8.3"	8.6"	5.8"	0.0	-9.0"
TRAJ: 150 yds. zero	-.8"	6.6"	11.3"	13.1"	11.8"	7.5"	0.0
VELOCITY (fps)	850	835	821	807	794	781	769
ENERGY (ft.-lbs.)	385	372	359	347	336	325	315
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.8"	-16.7"	-29.0"	-44.9"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.1"	-23.2"	-37.9"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-15.9"	-29.2"
TRAJ: 100 yds. zero	-.8"	4.2"	6.0"	4.7"	0.0	-8.1"	-19.8"
TRAJ: 125 yds. zero	-.8"	5.8"	9.3"	9.6"	6.5"	0.0	-10.1"
TRAJ: 150 yds. zero	-.8"	7.5"	12.6"	14.6"	13.2"	8.4"	0.0
VELOCITY (fps)	800	787	774	762	750	738	727
ENERGY (ft.-lbs.)	341	330	319	309	300	290	281
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.0"	-19.1"	-33.0"	-50.9"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.7"	-26.3"	-42.8"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.0"	-18.0"	-32.9"
TRAJ: 100 yds. zero	-.8"	4.8"	6.8"	5.3"	0.0	-9.2"	-22.3"
TRAJ: 125 yds. zero	-.8"	6.6"	10.5"	10.8"	7.3"	0.0	-11.3"
TRAJ: 150 yds. zero	-.8"	8.5"	14.3"	16.4"	14.9"	9.4"	0.0
VELOCITY (fps)	750	738	727	716	705	694	683
ENERGY (ft.-lbs.)	300	290	281	273	264	256	249
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.5"	-22.0"	-37.9"	-58.4"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.6"	-30.0"	-48.8"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.0"	-20.5"	-37.4"
TRAJ: 100 yds. zero	-.8"	5.5"	7.8"	6.0"	0.0	-10.4"	-25.3"
TRAJ: 125 yds. zero	-.8"	7.6"	12.0"	12.3"	8.3"	0.0	-12.8"
TRAJ: 150 yds. zero	-.8"	9.7"	16.3"	18.7"	16.9"	10.7"	0.0
VELOCITY (fps)	700	689	679	668	658	648	639
ENERGY (ft.-lbs.)	261	253	245	238	231	224	217
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.3"	-25.6"	-43.9"	-67.5"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.6"	-18.1"	-34.5"	-56.2"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.3"	-23.5"	-43.0"
TRAJ: 100 yds. zero	-.8"	6.4"	9.0"	7.0"	0.0	-11.9"	-29.1"
TRAJ: 125 yds. zero	-.8"	8.8"	13.8"	14.1"	9.6"	0.0	-14.7"
TRAJ: 150 yds. zero	-.8"	11.2"	18.7"	21.5"	19.4"	12.3"	0.0
VELOCITY (fps)	650	640	630	621	612	602	593
ENERGY (ft.-lbs.)	225	218	212	205	199	193	188
TRAJ: 25 yds. zero	-.8"	0.0	-4.5"	-14.4"	-30.1"	-51.5"	-78.9"
TRAJ: 50 yds. zero	-.8"	2.2"	0.0	-7.7"	-21.1"	-40.3"	-65.4"
TRAJ: 75 yds. zero	-.8"	4.8"	5.1"	0.0	-10.8"	-27.4"	-50.0"
TRAJ: 100 yds. zero	-.8"	7.5"	10.5"	8.1"	0.0	-13.9"	-33.8"
TRAJ: 125 yds. zero	-.8"	10.3"	16.1"	16.4"	11.1"	0.0	-17.1"
TRAJ: 150 yds. zero	-.8"	13.1"	21.8"	25.0"	22.5"	14.2"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	600	591	582	573	564	556	547
ENERGY (ft.-lbs.)	192	186	180	175	170	165	160
TRAJ: 25 yds. zero	-.8"	0.0	-5.4"	-17.3"	-35.7"	-61.0"	-93.3"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.1"	-24.9"	-47.4"	-77.0"
TRAJ: 75 yds. zero	-.8"	5.8"	6.1"	0.0	-12.7"	-32.2"	-58.7"
TRAJ: 100 yds. zero	-.8"	8.9"	12.4"	9.5"	0.0	-16.3"	-39.7"
TRAJ: 125 yds. zero	-.8"	12.2"	19.0"	19.3"	13.1"	0.0	-20.1"
TRAJ: 150 yds. zero	-.8"	15.5"	25.7"	29.4"	26.5"	16.7"	0.0

45 CALIBER (.451" Dia.) 185 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .130 BALLISTIC COEFFICIENT: .139

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1900	1770	1646	1530	1422	1324	1237
ENERGY (ft.-lbs.)	1483	1286	1113	961	831	720	629
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.6"	-2.2"	-4.9"	-8.9"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.4"	-5.2"	-9.2"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.9"	-7.7"
TRAJ: 100 yds. zero	-.8"	0.6"	1.2"	1.1"	0.0	-2.1"	-5.5"
TRAJ: 125 yds. zero	-.8"	1.0"	2.1"	2.4"	1.7"	0.0	-3.0"
TRAJ: 150 yds. zero	-.8"	1.5"	3.1"	3.8"	3.7"	2.5"	0.0
VELOCITY (fps)	1850	1722	1601	1488	1384	1290	1208
ENERGY (ft.-lbs.)	1406	1218	1053	910	787	684	599
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.7"	-2.5"	-5.4"	-9.6"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.6"	-5.5"	-9.8"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.5"	-4.2"	-8.2"
TRAJ: 100 yds. zero	-.8"	0.6"	1.3"	1.1"	0.0	-2.3"	-5.9"
TRAJ: 125 yds. zero	-.8"	1.1"	2.2"	2.5"	1.8"	0.0	-3.1"
TRAJ: 150 yds. zero	-.8"	1.6"	3.3"	4.1"	3.9"	2.6"	0.0
VELOCITY (fps)	1800	1675	1557	1447	1347	1257	1179
ENERGY (ft.-lbs.)	1331	1152	995	860	745	649	571
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.8"	-2.8"	-5.9"	-10.4"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.8"	-5.9"	-10.4"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.6"	-4.5"	-8.7"
TRAJ: 100 yds. zero	-.8"	0.7"	1.4"	1.2"	0.0	-2.4"	-6.2"
TRAJ: 125 yds. zero	-.8"	1.2"	2.4"	2.7"	1.9"	0.0	-3.3"
TRAJ: 150 yds. zero	-.8"	1.7"	3.5"	4.3"	4.1"	2.8"	0.0
VELOCITY (fps)	1750	1627	1513	1406	1310	1225	1153
ENERGY (ft.-lbs.)	1258	1088	940	812	705	616	546
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.1"	-6.4"	-11.2"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.0"	-6.4"	-11.1"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.7"	-9.2"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.6"	-6.6"
TRAJ: 125 yds. zero	-.8"	1.3"	2.5"	2.8"	2.1"	0.0	-3.5"
TRAJ: 150 yds. zero	-.8"	1.9"	3.7"	4.6"	4.4"	2.9"	0.0
VELOCITY (fps)	1700	1580	1469	1367	1275	1194	1127
ENERGY (ft.-lbs.)	1187	1026	886	767	667	586	522
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.1"	-3.4"	-7.0"	-12.1"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.3"	-6.8"	-11.9"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.1"	-9.8"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.4"	0.0	-2.7"	-7.0"
TRAJ: 125 yds. zero	-.8"	1.4"	2.7"	3.0"	2.2"	0.0	-3.7"
TRAJ: 150 yds. zero	-.8"	2.0"	4.0"	4.9"	4.7"	3.1"	0.0
VELOCITY (fps)	1650	1534	1426	1327	1240	1165	1103
ENERGY (ft.-lbs.)	1118	966	835	724	632	558	500
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-3.7"	-7.6"	-13.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.5"	-7.3"	-12.7"
TRAJ: 75 yds. zero	-.8"	0.4"	0.8"	0.0	-2.0"	-5.4"	-10.4"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.5"	0.0	-2.9"	-7.4"
TRAJ: 125 yds. zero	-.8"	1.5"	2.9"	3.2"	2.3"	0.0	-3.9"
TRAJ: 150 yds. zero	-.8"	2.2"	4.2"	5.2"	4.9"	3.3"	0.0
VELOCITY (fps)	1600	1487	1383	1289	1207	1137	1080
ENERGY (ft.-lbs.)	1051	908	786	683	598	531	479
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.5"	-4.1"	-8.3"	-14.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.8"	-7.8"	-13.5"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.7"	-11.0"
TRAJ: 100 yds. zero	-.8"	1.0"	1.9"	1.6"	0.0	-3.1"	-7.8"
TRAJ: 125 yds. zero	-.8"	1.7"	3.1"	3.4"	2.5"	0.0	-4.1"
TRAJ: 150 yds. zero	-.8"	2.3"	4.5"	5.5"	5.2"	3.5"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1550	1441	1341	1252	1175	1111	1059
ENERGY (ft.-lbs.)	987	853	739	644	567	507	461
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.7"	-4.5"	-9.0"	-15.1"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.1"	-8.3"	-14.4"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.3"	-6.1"	-11.7"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.3"	-8.3"
TRAJ: 125 yds. zero	-.8"	1.8"	3.3"	3.7"	2.6"	0.0	-4.4"
TRAJ: 150 yds. zero	-.8"	2.5"	4.8"	5.9"	5.5"	3.6"	0.0
VELOCITY (fps)	1500	1395	1300	1216	1145	1087	1039
ENERGY (ft.-lbs.)	924	799	694	607	538	485	443
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.9"	-5.0"	-9.7"	-16.3"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.4"	-4.4"	-8.9"	-15.3"
TRAJ: 75 yds. zero	-.8"	0.6"	1.0"	0.0	-2.4"	-6.5"	-12.4"
TRAJ: 100 yds. zero	-.8"	1.2"	2.2"	1.8"	0.0	-3.5"	-8.8"
TRAJ: 125 yds. zero	-.8"	1.9"	3.6"	3.9"	2.8"	0.0	-4.6"
TRAJ: 150 yds. zero	-.8"	2.7"	5.1"	6.2"	5.9"	3.8"	0.0
VELOCITY (fps)	1450	1349	1259	1181	1116	1063	1020
ENERGY (ft.-lbs.)	864	748	651	573	512	464	427
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.5"	-10.5"	-17.5"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.5"	-16.3"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.6"	-6.9"	-13.2"
TRAJ: 100 yds. zero	-.8"	1.4"	2.3"	2.0"	0.0	-3.7"	-9.3"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.2"	2.9"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	2.9"	5.4"	6.6"	6.2"	4.0"	0.0
VELOCITY (fps)	1400	1304	1220	1148	1089	1041	1001
ENERGY (ft.-lbs.)	805	699	611	542	487	445	412
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.4"	-6.0"	-11.4"	-18.8"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-5.0"	-10.2"	-17.3"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.8"	-7.4"	-13.9"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0	-3.9"	-9.8"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.4"	3.1"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	3.1"	5.8"	7.0"	6.5"	4.3"	0.0
VELOCITY (fps)	1350	1260	1182	1117	1064	1020	983
ENERGY (ft.-lbs.)	749	652	574	512	465	427	397
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.7"	-6.6"	-12.3"	-20.1"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.4"	-10.9"	-18.4"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-3.0"	-7.8"	-14.8"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-4.1"	-10.3"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.3"	0.0	-5.4"
TRAJ: 150 yds. zero	-.8"	3.4"	6.1"	7.4"	6.9"	4.5"	0.0
VELOCITY (fps)	1300	1216	1145	1087	1039	999	965
ENERGY (ft.-lbs.)	694	608	539	485	443	410	383
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.0"	-7.1"	-13.3"	-21.6"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.0"	-5.8"	-11.6"	-19.6"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.2"	-8.3"	-15.6"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.4"	0.0	-4.4"	-10.9"
TRAJ: 125 yds. zero	-.8"	2.7"	4.6"	5.0"	3.5"	0.0	-5.6"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.8"	7.2"	4.7"	0.0
VELOCITY (fps)	1250	1174	1110	1058	1015	979	947
ENERGY (ft.-lbs.)	642	566	506	460	423	394	368
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.3"	-7.8"	-14.3"	-23.1"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.2"	-12.4"	-20.8"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.4"	-8.8"	-16.5"
TRAJ: 100 yds. zero	-.8"	1.9"	3.1"	2.5"	0.0	-4.6"	-11.5"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.3"	3.7"	0.0	-5.9"
TRAJ: 150 yds. zero	-.8"	3.9"	6.9"	8.3"	7.6"	4.9"	0.0
VELOCITY (fps)	1200	1132	1076	1030	992	958	929
ENERGY (ft.-lbs.)	591	526	475	436	404	377	354
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.7"	-8.5"	-15.5"	-24.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.3"	-6.7"	-13.2"	-22.1"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.6"	-9.4"	-17.5"
TRAJ: 100 yds. zero	-.8"	2.1"	3.3"	2.7"	0.0	-4.9"	-12.1"
TRAJ: 125 yds. zero	-.8"	3.1"	5.3"	5.6"	3.9"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.1"	7.4"	8.7"	8.1"	5.2"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1150	1091	1042	1002	967	937	909
ENERGY (ft.-lbs.)	543	489	446	412	384	361	340
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-4.0"	-9.2"	-16.7"	-26.6"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.5"	-7.2"	-14.1"	-23.5"
TRAJ: 75 yds. zero	-.8"	1.3"	1.7"	0.0	-3.8"	-10.0"	-18.5"
TRAJ: 100 yds. zero	-.8"	2.3"	3.6"	2.9"	0.0	-5.2"	-12.8"
TRAJ: 125 yds. zero	-.8"	3.3"	5.7"	6.0"	4.1"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.4"	7.8"	9.3"	8.5"	5.5"	0.0
VELOCITY (fps)	1100	1050	1008	973	942	914	888
ENERGY (ft.-lbs.)	497	453	418	389	364	343	324
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.5"	-10.1"	-18.1"	-28.7"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.7"	-7.7"	-15.2"	-25.2"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.1"	-10.6"	-19.7"
TRAJ: 100 yds. zero	-.8"	2.5"	3.9"	3.1"	0.0	-5.5"	-13.6"
TRAJ: 125 yds. zero	-.8"	3.6"	6.1"	6.4"	4.4"	0.0	-7.0"
TRAJ: 150 yds. zero	-.8"	4.8"	8.4"	9.9"	9.1"	5.8"	0.0
VELOCITY (fps)	1050	1009	973	942	914	888	865
ENERGY (ft.-lbs.)	453	418	389	364	343	324	307
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-5.0"	-11.0"	-19.7"	-31.1"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.0"	-8.4"	-16.3"	-27.1"
TRAJ: 75 yds. zero	-.8"	1.7"	2.0"	0.0	-4.4"	-11.4"	-21.2"
TRAJ: 100 yds. zero	-.8"	2.8"	4.2"	3.3"	0.0	-5.9"	-14.5"
TRAJ: 125 yds. zero	-.8"	3.9"	6.5"	6.8"	4.7"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.2"	9.0"	10.6"	9.7"	6.2"	0.0
VELOCITY (fps)	1000	966	935	908	883	859	837
ENERGY (ft.-lbs.)	411	383	359	339	320	303	288
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.5"	-12.2"	-21.6"	-33.9"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-9.1"	-17.8"	-29.4"
TRAJ: 75 yds. zero	-.8"	1.8"	2.2"	0.0	-4.8"	-12.4"	-22.9"
TRAJ: 100 yds. zero	-.8"	3.0"	4.6"	3.6"	0.0	-6.4"	-15.7"
TRAJ: 125 yds. zero	-.8"	4.3"	7.1"	7.4"	5.1"	0.0	-8.0"
TRAJ: 150 yds. zero	-.8"	5.7"	9.8"	11.4"	10.5"	6.7"	0.0
VELOCITY (fps)	950	921	895	871	848	827	807
ENERGY (ft.-lbs.)	371	349	329	311	295	281	267
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.2"	-13.6"	-23.9"	-37.4"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.6"	-10.0"	-19.5"	-32.1"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.3"	-13.5"	-25.0"
TRAJ: 100 yds. zero	-.8"	3.4"	5.0"	3.9"	0.0	-7.0"	-17.1"
TRAJ: 125 yds. zero	-.8"	4.8"	7.8"	8.1"	5.6"	0.0	-8.7"
TRAJ: 150 yds. zero	-.8"	6.2"	10.7"	12.5"	11.4"	7.3"	0.0
VELOCITY (fps)	900	875	853	831	810	791	772
ENERGY (ft.-lbs.)	333	315	299	284	270	257	245
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-7.1"	-15.2"	-26.7"	-41.6"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.1"	-21.6"	-35.5"
TRAJ: 75 yds. zero	-.8"	2.4"	2.7"	0.0	-5.8"	-14.9"	-27.5"
TRAJ: 100 yds. zero	-.8"	3.8"	5.6"	4.4"	0.0	-7.7"	-18.8"
TRAJ: 125 yds. zero	-.8"	5.3"	8.6"	9.0"	6.1"	0.0	-9.6"
TRAJ: 150 yds. zero	-.8"	6.9"	11.8"	13.8"	12.5"	8.0"	0.0
VELOCITY (fps)	850	829	808	789	770	752	735
ENERGY (ft.-lbs.)	297	282	268	256	244	233	222
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.0"	-17.2"	-30.1"	-46.7"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.5"	-12.5"	-24.1"	-39.6"
TRAJ: 75 yds. zero	-.8"	2.7"	3.0"	0.0	-6.5"	-16.6"	-30.6"
TRAJ: 100 yds. zero	-.8"	4.3"	6.2"	4.9"	0.0	-8.5"	-20.9"
TRAJ: 125 yds. zero	-.8"	6.0"	9.7"	10.0"	6.8"	0.0	-10.7"
TRAJ: 150 yds. zero	-.8"	7.8"	13.2"	15.3"	13.9"	8.9"	0.0
VELOCITY (fps)	800	781	763	745	728	712	696
ENERGY (ft.-lbs.)	263	251	239	228	218	208	199
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.3"	-19.7"	-34.2"	-52.9"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.1"	-14.1"	-27.2"	-44.7"
TRAJ: 75 yds. zero	-.8"	3.1"	3.4"	0.0	-7.3"	-18.7"	-34.4"
TRAJ: 100 yds. zero	-.8"	4.9"	7.1"	5.5"	0.0	-9.6"	-23.5"
TRAJ: 125 yds. zero	-.8"	6.8"	10.9"	11.2"	7.7"	0.0	-12.0"
TRAJ: 150 yds. zero	-.8"	8.8"	14.9"	17.2"	15.6"	10.0"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	750	733	716	700	684	669	654
ENERGY (ft.-lbs.)	231	221	211	201	192	184	176
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.7"	-22.6"	-39.1"	-60.6"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.8"	-16.1"	-31.0"	-50.8"
TRAJ: 75 yds. zero	-.8"	3.6"	3.9"	0.0	-8.4"	-21.3"	-39.1"
TRAJ: 100 yds. zero	-.8"	5.7"	8.1"	6.3"	0.0	-10.9"	-26.6"
TRAJ: 125 yds. zero	-.8"	7.8"	12.4"	12.8"	8.7"	0.0	-13.6"
TRAJ: 150 yds. zero	-.8"	10.1"	16.9"	19.6"	17.7"	11.3"	0.0
VELOCITY (fps)	700	684	669	654	640	626	612
ENERGY (ft.-lbs.)	201	192	184	176	168	161	154
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.5"	-26.3"	-45.3"	-69.9"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.8"	-18.6"	-35.8"	-58.5"
TRAJ: 75 yds. zero	-.8"	4.2"	4.5"	0.0	-9.6"	-24.5"	-44.9"
TRAJ: 100 yds. zero	-.8"	6.6"	9.3"	7.2"	0.0	-12.5"	-30.5"
TRAJ: 125 yds. zero	-.8"	9.1"	14.3"	14.7"	10.0"	0.0	-15.5"
TRAJ: 150 yds. zero	-.8"	11.7"	19.5"	22.4"	20.4"	12.9"	0.0

45 CALIBER (.451" Dia.) 185 GRAIN FULL METAL JACKET SEMI-WADCUTTER
SECTIONAL DENSITY: .130 BALLISTIC COEFFICIENT: .068

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1900	1641	1413	1227	1092	1001	935
ENERGY (ft.-lbs.)	1483	1106	820	618	489	412	359
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.1"	-3.7"	-8.0"	-14.4"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.1"	-3.7"	-8.0"	-14.4"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-2.2"	-6.2"	-12.2"
TRAJ: 100 yds. zero	-.8"	0.9"	1.8"	1.6"	0.0	-3.4"	-8.9"
TRAJ: 125 yds. zero	-.8"	1.6"	3.2"	3.7"	2.7"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	2.4"	4.8"	6.1"	5.9"	4.0"	0.0
VELOCITY (fps)	1850	1596	1375	1198	1072	987	924
ENERGY (ft.-lbs.)	1406	1046	777	589	472	400	351
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-4.0"	-8.6"	-15.3"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.2"	-3.9"	-8.4"	-15.1"
TRAJ: 75 yds. zero	-.8"	0.4"	0.8"	0.0	-2.3"	-6.5"	-12.7"
TRAJ: 100 yds. zero	-.8"	1.0"	1.9"	1.7"	0.0	-3.6"	-9.3"
TRAJ: 125 yds. zero	-.8"	1.7"	3.4"	3.9"	2.9"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	2.5"	5.0"	6.4"	6.2"	4.1"	0.0
VELOCITY (fps)	1800	1552	1338	1170	1054	974	914
ENERGY (ft.-lbs.)	1331	989	736	562	456	390	343
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.4"	-4.3"	-9.2"	-16.1"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.1"	-8.9"	-15.8"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.4"	-6.8"	-13.3"
TRAJ: 100 yds. zero	-.8"	1.1"	2.1"	1.8"	0.0	-3.7"	-9.6"
TRAJ: 125 yds. zero	-.8"	1.8"	3.6"	4.1"	3.0"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	2.7"	5.3"	6.6"	6.4"	4.3"	0.0
VELOCITY (fps)	1750	1508	1302	1144	1036	962	903
ENERGY (ft.-lbs.)	1258	934	696	537	441	380	335
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.7"	-9.8"	-17.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.4"	-4.4"	-9.4"	-16.6"
TRAJ: 75 yds. zero	-.8"	0.5"	0.9"	0.0	-2.6"	-7.1"	-13.8"
TRAJ: 100 yds. zero	-.8"	1.2"	2.2"	1.9"	0.0	-3.9"	-10.0"
TRAJ: 125 yds. zero	-.8"	2.0"	3.7"	4.3"	3.1"	0.0	-5.3"
TRAJ: 150 yds. zero	-.8"	2.8"	5.5"	6.9"	6.7"	4.4"	0.0
VELOCITY (fps)	1700	1464	1267	1119	1020	949	893
ENERGY (ft.-lbs.)	1187	881	659	514	427	370	328
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.8"	-5.1"	-10.4"	-18.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.5"	-4.7"	-9.9"	-17.3"
TRAJ: 75 yds. zero	-.8"	0.6"	1.0"	0.0	-2.7"	-7.4"	-14.4"
TRAJ: 100 yds. zero	-.8"	1.3"	2.3"	2.0"	0.0	-4.0"	-10.4"
TRAJ: 125 yds. zero	-.8"	2.1"	3.9"	4.4"	3.2"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.0"	5.8"	7.2"	6.9"	4.6"	0.0
VELOCITY (fps)	1650	1421	1233	1096	1004	937	883
ENERGY (ft.-lbs.)	1118	830	624	493	414	361	320
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-2.0"	-5.5"	-11.1"	-19.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.6"	-4.9"	-10.4"	-18.1"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.8"	-7.7"	-15.0"
TRAJ: 100 yds. zero	-.8"	1.4"	2.5"	2.1"	0.0	-4.2"	-10.7"
TRAJ: 125 yds. zero	-.8"	2.2"	4.1"	4.6"	3.4"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.2"	6.0"	7.5"	7.2"	4.7"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1600	1379	1200	1074	989	925	873
ENERGY (ft.-lbs.)	1051	781	592	474	401	352	313
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-2.2"	-5.9"	-11.8"	-20.0"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-5.2"	-10.9"	-19.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.1"	0.0	-3.0"	-8.1"	-15.6"
TRAJ: 100 yds. zero	-.8"	1.5"	2.6"	2.2"	0.0	-4.4"	-11.1"
TRAJ: 125 yds. zero	-.8"	2.4"	4.4"	4.9"	3.5"	0.0	-5.9"
TRAJ: 150 yds. zero	-.8"	3.3"	6.3"	7.8"	7.4"	4.9"	0.0
VELOCITY (fps)	1550	1337	1169	1053	974	913	863
ENERGY (ft.-lbs.)	987	734	561	455	390	343	306
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.4"	-6.4"	-12.5"	-21.1"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.8"	-5.5"	-11.4"	-19.8"
TRAJ: 75 yds. zero	-.8"	0.8"	1.2"	0.0	-3.1"	-8.4"	-16.2"
TRAJ: 100 yds. zero	-.8"	1.6"	2.8"	2.3"	0.0	-4.5"	-11.5"
TRAJ: 125 yds. zero	-.8"	2.5"	4.6"	5.1"	3.6"	0.0	-6.1"
TRAJ: 150 yds. zero	-.8"	3.5"	6.6"	8.1"	7.7"	5.1"	0.0
VELOCITY (fps)	1500	1296	1139	1033	959	902	853
ENERGY (ft.-lbs.)	924	690	533	439	378	334	299
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.7"	-6.8"	-13.2"	-22.2"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.9"	-5.8"	-12.0"	-20.7"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.3"	-8.8"	-16.9"
TRAJ: 100 yds. zero	-.8"	1.7"	2.9"	2.5"	0.0	-4.7"	-12.0"
TRAJ: 125 yds. zero	-.8"	2.6"	4.8"	5.3"	3.8"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	3.7"	6.9"	8.4"	8.0"	5.3"	0.0
VELOCITY (fps)	1450	1256	1111	1015	945	890	843
ENERGY (ft.-lbs.)	864	648	507	423	367	325	292
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.9"	-7.3"	-14.0"	-23.4"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.0"	-6.1"	-12.6"	-21.6"
TRAJ: 75 yds. zero	-.8"	1.0"	1.4"	0.0	-3.4"	-9.2"	-17.5"
TRAJ: 100 yds. zero	-.8"	1.8"	3.1"	2.6"	0.0	-4.9"	-12.4"
TRAJ: 125 yds. zero	-.8"	2.8"	5.0"	5.5"	3.9"	0.0	-6.5"
TRAJ: 150 yds. zero	-.8"	3.9"	7.2"	8.8"	8.3"	5.4"	0.0
VELOCITY (fps)	1400	1217	1085	996	931	878	832
ENERGY (ft.-lbs.)	805	608	483	408	356	317	285
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.2"	-7.8"	-14.9"	-24.6"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-2.2"	-6.5"	-13.2"	-22.6"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.6"	-9.6"	-18.3"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.7"	0.0	-5.1"	-12.9"
TRAJ: 125 yds. zero	-.8"	3.0"	5.3"	5.7"	4.1"	0.0	-6.8"
TRAJ: 150 yds. zero	-.8"	4.1"	7.5"	9.1"	8.6"	5.6"	0.0
VELOCITY (fps)	1350	1179	1059	978	917	866	822
ENERGY (ft.-lbs.)	749	571	461	393	345	308	277
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-8.3"	-15.7"	-25.9"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.3"	-6.8"	-13.8"	-23.6"
TRAJ: 75 yds. zero	-.8"	1.1"	1.5"	0.0	-3.7"	-10.0"	-19.0"
TRAJ: 100 yds. zero	-.8"	2.1"	3.4"	2.8"	0.0	-5.3"	-13.4"
TRAJ: 125 yds. zero	-.8"	3.1"	5.5"	6.0"	4.2"	0.0	-7.0"
TRAJ: 150 yds. zero	-.8"	4.3"	7.9"	9.5"	8.9"	5.8"	0.0
VELOCITY (fps)	1300	1142	1035	961	903	854	811
ENERGY (ft.-lbs.)	694	536	440	379	335	300	270
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.7"	-8.9"	-16.6"	-27.3"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.4"	-7.2"	-14.5"	-24.7"
TRAJ: 75 yds. zero	-.8"	1.2"	1.6"	0.0	-3.9"	-10.4"	-19.8"
TRAJ: 100 yds. zero	-.8"	2.2"	3.6"	2.9"	0.0	-5.5"	-13.9"
TRAJ: 125 yds. zero	-.8"	3.3"	5.8"	6.3"	4.4"	0.0	-7.3"
TRAJ: 150 yds. zero	-.8"	4.5"	8.2"	9.9"	9.3"	6.1"	0.0
VELOCITY (fps)	1250	1107	1012	943	888	841	800
ENERGY (ft.-lbs.)	642	504	421	365	324	291	263
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-4.0"	-9.5"	-17.6"	-28.7"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.6"	-7.6"	-15.2"	-25.8"
TRAJ: 75 yds. zero	-.8"	1.3"	1.7"	0.0	-4.1"	-10.9"	-20.7"
TRAJ: 100 yds. zero	-.8"	2.4"	3.8"	3.1"	0.0	-5.8"	-14.5"
TRAJ: 125 yds. zero	-.8"	3.5"	6.1"	6.5"	4.6"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	4.8"	8.6"	10.3"	9.7"	6.3"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1200	1074	989	925	873	828	787
ENERGY (ft.-lbs.)	591	473	401	351	313	282	255
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.4"	-10.1"	-18.7"	-30.3"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.7"	-8.0"	-16.0"	-27.1"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.3"	-11.4"	-21.6"
TRAJ: 100 yds. zero	-.8"	2.5"	4.0"	3.2"	0.0	-6.0"	-15.1"
TRAJ: 125 yds. zero	-.8"	3.7"	6.4"	6.9"	4.8"	0.0	-7.9"
TRAJ: 150 yds. zero	-.8"	5.1"	9.0"	10.8"	10.1"	6.6"	0.0
VELOCITY (fps)	1150	1040	965	906	857	813	774
ENERGY (ft.-lbs.)	543	445	382	337	301	272	246
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.7"	-10.8"	-19.9"	-32.1"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.9"	-8.4"	-16.9"	-28.5"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.6"	-12.0"	-22.7"
TRAJ: 100 yds. zero	-.8"	2.7"	4.2"	3.4"	0.0	-6.3"	-15.8"
TRAJ: 125 yds. zero	-.8"	4.0"	6.7"	7.2"	5.1"	0.0	-8.3"
TRAJ: 150 yds. zero	-.8"	5.4"	9.5"	11.3"	10.6"	6.9"	0.0
VELOCITY (fps)	1100	1007	939	885	838	797	759
ENERGY (ft.-lbs.)	497	416	362	322	289	261	237
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-5.1"	-11.6"	-21.2"	-34.1"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-9.0"	-17.9"	-30.1"
TRAJ: 75 yds. zero	-.8"	1.7"	2.1"	0.0	-4.8"	-12.7"	-23.9"
TRAJ: 100 yds. zero	-.8"	2.9"	4.5"	3.6"	0.0	-6.7"	-16.7"
TRAJ: 125 yds. zero	-.8"	4.2"	7.2"	7.6"	5.3"	0.0	-8.7"
TRAJ: 150 yds. zero	-.8"	5.7"	10.0"	12.0"	11.1"	7.2"	0.0
VELOCITY (fps)	1050	972	912	862	818	778	742
ENERGY (ft.-lbs.)	453	388	341	305	275	249	226
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.6"	-12.6"	-22.8"	-36.6"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.4"	-9.6"	-19.1"	-32.1"
TRAJ: 75 yds. zero	-.8"	1.9"	2.2"	0.0	-5.1"	-13.5"	-25.4"
TRAJ: 100 yds. zero	-.8"	3.1"	4.8"	3.9"	0.0	-7.1"	-17.7"
TRAJ: 125 yds. zero	-.8"	4.6"	7.6"	8.1"	5.7"	0.0	-9.2"
TRAJ: 150 yds. zero	-.8"	6.1"	10.7"	12.7"	11.8"	7.7"	0.0
VELOCITY (fps)	1000	934	881	835	793	756	721
ENERGY (ft.-lbs.)	411	358	319	286	259	235	214
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.2"	-13.7"	-24.8"	-39.5"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.6"	-10.4"	-20.5"	-34.5"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.5"	-14.5"	-27.2"
TRAJ: 100 yds. zero	-.8"	3.4"	5.2"	4.1"	0.0	-7.6"	-18.9"
TRAJ: 125 yds. zero	-.8"	5.0"	8.2"	8.7"	6.1"	0.0	-9.8"
TRAJ: 150 yds. zero	-.8"	6.6"	11.5"	13.6"	12.6"	8.2"	0.0
VELOCITY (fps)	950	894	846	804	766	730	697
ENERGY (ft.-lbs.)	371	328	294	265	241	219	199
TRAJ: 25 yds. zero	-.8"	0.0	-1.9"	-6.9"	-15.2"	-27.1"	-43.2"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.0"	-11.3"	-22.3"	-37.4"
TRAJ: 75 yds. zero	-.8"	2.3"	2.7"	0.0	-6.0"	-15.7"	-29.4"
TRAJ: 100 yds. zero	-.8"	3.8"	5.7"	4.5"	0.0	-8.2"	-20.4"
TRAJ: 125 yds. zero	-.8"	5.4"	8.9"	9.4"	6.5"	0.0	-10.6"
TRAJ: 150 yds. zero	-.8"	7.2"	12.5"	14.7"	13.6"	8.8"	0.0
VELOCITY (fps)	900	852	809	770	734	701	669
ENERGY (ft.-lbs.)	333	298	269	243	221	202	184
TRAJ: 25 yds. zero	-.8"	0.0	-2.2"	-7.7"	-16.9"	-30.1"	-47.6"
TRAJ: 50 yds. zero	-.8"	1.1"	0.0	-4.4"	-12.5"	-24.6"	-41.1"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.6"	-17.2"	-32.2"
TRAJ: 100 yds. zero	-.8"	4.2"	6.2"	5.0"	0.0	-9.0"	-22.3"
TRAJ: 125 yds. zero	-.8"	6.0"	9.8"	10.3"	7.2"	0.0	-11.6"
TRAJ: 150 yds. zero	-.8"	7.9"	13.7"	16.1"	14.9"	9.6"	0.0
VELOCITY (fps)	850	807	769	733	699	668	638
ENERGY (ft.-lbs.)	297	268	243	221	201	183	167
TRAJ: 25 yds. zero	-.8"	0.0	-2.5"	-8.7"	-19.0"	-33.7"	-53.2"
TRAJ: 50 yds. zero	-.8"	1.3"	0.0	-4.9"	-13.9"	-27.3"	-45.6"
TRAJ: 75 yds. zero	-.8"	2.9"	3.3"	0.0	-7.3"	-19.1"	-35.7"
TRAJ: 100 yds. zero	-.8"	4.7"	7.0"	5.5"	0.0	-9.9"	-24.7"
TRAJ: 125 yds. zero	-.8"	6.7"	10.9"	11.5"	7.9"	0.0	-12.8"
TRAJ: 150 yds. zero	-.8"	8.9"	15.2"	17.9"	16.5"	10.7"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	800	762	727	694	662	633	605
ENERGY (ft.-lbs.)	263	238	217	198	180	164	150
TRAJ: 25 yds. zero	-.8"	0.0	-2.9"	-10.0"	-21.6"	-38.1"	-60.0"
TRAJ: 50 yds. zero	-.8"	1.5"	0.0	-5.6"	-15.7"	-30.7"	-51.2"
TRAJ: 75 yds. zero	-.8"	3.3"	3.7"	0.0	-8.2"	-21.4"	-40.0"
TRAJ: 100 yds. zero	-.8"	5.4"	7.8"	6.2"	0.0	-11.1"	-27.7"
TRAJ: 125 yds. zero	-.8"	7.6"	12.3"	12.8"	8.9"	0.0	-14.3"
TRAJ: 150 yds. zero	-.8"	10.0"	17.1"	20.0"	18.4"	11.9"	0.0
VELOCITY (fps)	750	716	683	652	623	595	569
ENERGY (ft.-lbs.)	231	210	192	175	160	146	133
TRAJ: 25 yds. zero	-.8"	0.0	-3.4"	-11.5"	-24.7"	-43.5"	-68.4"
TRAJ: 50 yds. zero	-.8"	1.7"	0.0	-6.4"	-17.8"	-34.9"	-58.1"
TRAJ: 75 yds. zero	-.8"	3.8"	4.2"	0.0	-9.4"	-24.3"	-45.3"
TRAJ: 100 yds. zero	-.8"	6.2"	8.9"	7.0"	0.0	-12.6"	-31.3"
TRAJ: 125 yds. zero	-.8"	8.7"	14.0"	14.6"	10.1"	0.0	-16.2"
TRAJ: 150 yds. zero	-.8"	11.4"	19.4"	22.7"	20.9"	13.5"	0.0
VELOCITY (fps)	700	668	639	610	583	557	532
ENERGY (ft.-lbs.)	201	184	167	153	139	127	116
TRAJ: 25 yds. zero	-.8"	0.0	-4.1"	-13.4"	-28.7"	-50.3"	-78.9"
TRAJ: 50 yds. zero	-.8"	2.0"	0.0	-7.4"	-20.6"	-40.1"	-66.7"
TRAJ: 75 yds. zero	-.8"	4.5"	4.9"	0.0	-10.8"	-27.9"	-52.0"
TRAJ: 100 yds. zero	-.8"	7.2"	10.3"	8.1"	0.0	-14.5"	-35.9"
TRAJ: 125 yds. zero	-.8"	10.1"	16.1"	16.7"	11.6"	0.0	-18.5"
TRAJ: 150 yds. zero	-.8"	13.2"	22.2"	26.0"	23.9"	15.5"	0.0

45 CALIBER (.451" Dia.) 200 GRAIN FULL METAL JACKET COMBAT TARGET
SECTIONAL DENSITY: .140 BALLISTIC COEFFICIENT: .115

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1800	1649	1510	1383	1271	1176	1100
ENERGY (ft.-lbs.)	1439	1208	1012	849	717	614	538
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.0"	-6.5"	-11.5"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.0"	-6.5"	-11.5"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.8"	-4.9"	-9.6"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.7"	-6.9"
TRAJ: 125 yds. zero	-.8"	1.3"	2.6"	2.9"	2.1"	0.0	-3.7"
TRAJ: 150 yds. zero	-.8"	1.9"	3.8"	4.8"	4.6"	3.1"	0.0
VELOCITY (fps)	1750	1603	1467	1345	1238	1150	1080
ENERGY (ft.-lbs.)	1360	1141	956	803	681	587	517
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.1"	-3.4"	-7.0"	-12.4"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.3"	-6.9"	-12.2"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.2"	-10.2"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.4"	0.0	-2.8"	-7.3"
TRAJ: 125 yds. zero	-.8"	1.4"	2.8"	3.1"	2.3"	0.0	-3.9"
TRAJ: 150 yds. zero	-.8"	2.1"	4.1"	5.1"	4.9"	3.3"	0.0
VELOCITY (fps)	1700	1556	1425	1308	1207	1124	1060
ENERGY (ft.-lbs.)	1283	1076	902	759	647	561	499
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-3.7"	-7.6"	-13.3"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.1"	-3.5"	-7.4"	-13.0"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-2.0"	-5.5"	-10.8"
TRAJ: 100 yds. zero	-.8"	0.9"	1.8"	1.5"	0.0	-3.0"	-7.7"
TRAJ: 125 yds. zero	-.8"	1.5"	3.0"	3.3"	2.4"	0.0	-4.1"
TRAJ: 150 yds. zero	-.8"	2.2"	4.3"	5.4"	5.1"	3.4"	0.0
VELOCITY (fps)	1650	1510	1383	1271	1177	1101	1041
ENERGY (ft.-lbs.)	1209	1013	850	718	615	538	481
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.4"	-4.1"	-8.3"	-14.3"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.8"	-7.9"	-13.8"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.2"	-5.9"	-11.4"
TRAJ: 100 yds. zero	-.8"	1.0"	1.9"	1.6"	0.0	-3.2"	-8.1"
TRAJ: 125 yds. zero	-.8"	1.7"	3.2"	3.5"	2.5"	0.0	-4.3"
TRAJ: 150 yds. zero	-.8"	2.4"	4.6"	5.7"	5.4"	3.6"	0.0
VELOCITY (fps)	1600	1465	1343	1236	1148	1078	1024
ENERGY (ft.-lbs.)	1137	952	800	679	585	516	465
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.5"	-9.0"	-15.3"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.1"	-8.4"	-14.7"
TRAJ: 75 yds. zero	-.8"	0.5"	0.9"	0.0	-2.3"	-6.2"	-12.0"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.4"	-8.6"
TRAJ: 125 yds. zero	-.8"	1.8"	3.4"	3.7"	2.7"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.6"	4.9"	6.0"	5.7"	3.8"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1550	1419	1302	1202	1121	1057	1007
ENERGY (ft.-lbs.)	1067	894	753	642	558	496	450
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.8"	-4.9"	-9.7"	-16.4"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.4"	-4.3"	-9.0"	-15.6"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.4"	-6.6"	-12.7"
TRAJ: 100 yds. zero	-.8"	1.2"	2.2"	1.8"	0.0	-3.6"	-9.0"
TRAJ: 125 yds. zero	-.8"	1.9"	3.6"	4.0"	2.8"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	2.7"	5.2"	6.4"	6.0"	4.0"	0.0
VELOCITY (fps)	1500	1374	1263	1170	1096	1037	990
ENERGY (ft.-lbs.)	999	838	709	608	533	478	435
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.1"	-5.4"	-10.5"	-17.5"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.7"	-9.6"	-16.5"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.6"	-7.0"	-13.4"
TRAJ: 100 yds. zero	-.8"	1.3"	2.3"	2.0"	0.0	-3.8"	-9.5"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.2"	3.0"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	2.9"	5.5"	6.7"	6.3"	4.2"	0.0
VELOCITY (fps)	1450	1330	1225	1139	1071	1018	974
ENERGY (ft.-lbs.)	934	785	667	576	510	460	421
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.3"	-5.9"	-11.3"	-18.8"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.7"	-5.0"	-10.2"	-17.5"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.8"	-7.4"	-14.1"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0	-4.0"	-10.0"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.5"	3.2"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.1"	5.8"	7.1"	6.6"	4.4"	0.0
VELOCITY (fps)	1400	1286	1189	1110	1049	1000	959
ENERGY (ft.-lbs.)	870	734	627	547	488	444	408
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.6"	-6.4"	-12.1"	-20.0"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.3"	-10.8"	-18.5"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-3.0"	-7.9"	-14.9"
TRAJ: 100 yds. zero	-.8"	1.6"	2.7"	2.2"	0.0	-4.2"	-10.5"
TRAJ: 125 yds. zero	-.8"	2.4"	4.3"	4.7"	3.3"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.3"	6.2"	7.4"	7.0"	4.6"	0.0
VELOCITY (fps)	1350	1243	1153	1082	1027	981	943
ENERGY (ft.-lbs.)	809	686	590	520	468	428	395
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.9"	-13.0"	-21.4"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.7"	-11.5"	-19.5"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.1"	-8.3"	-15.7"
TRAJ: 100 yds. zero	-.8"	1.7"	2.9"	2.4"	0.0	-4.4"	-11.0"
TRAJ: 125 yds. zero	-.8"	2.6"	4.6"	5.0"	3.5"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.8"	7.3"	4.8"	0.0
VELOCITY (fps)	1300	1200	1119	1056	1005	964	928
ENERGY (ft.-lbs.)	750	640	556	495	449	412	382
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.5"	-14.0"	-22.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.1"	-12.2"	-20.7"
TRAJ: 75 yds. zero	-.8"	1.0"	1.4"	0.0	-3.3"	-8.8"	-16.5"
TRAJ: 100 yds. zero	-.8"	1.9"	3.1"	2.5"	0.0	-4.6"	-11.5"
TRAJ: 125 yds. zero	-.8"	2.8"	4.9"	5.3"	3.7"	0.0	-6.0"
TRAJ: 150 yds. zero	-.8"	3.8"	6.9"	8.3"	7.7"	5.0"	0.0
VELOCITY (fps)	1250	1159	1087	1030	985	946	912
ENERGY (ft.-lbs.)	694	597	525	471	430	397	369
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.5"	-8.1"	-15.0"	-24.3"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.5"	-13.0"	-21.9"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.5"	-9.3"	-17.4"
TRAJ: 100 yds. zero	-.8"	2.0"	3.3"	2.6"	0.0	-4.9"	-12.1"
TRAJ: 125 yds. zero	-.8"	3.0"	5.2"	5.6"	3.9"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.1"	7.3"	8.7"	8.1"	5.2"	0.0
VELOCITY (fps)	1200	1119	1056	1005	964	928	896
ENERGY (ft.-lbs.)	639	556	495	449	412	382	356
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.8"	-8.8"	-16.1"	-25.9"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-7.0"	-13.8"	-23.1"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.7"	-9.8"	-18.3"
TRAJ: 100 yds. zero	-.8"	2.2"	3.5"	2.8"	0.0	-5.1"	-12.7"
TRAJ: 125 yds. zero	-.8"	3.2"	5.5"	5.9"	4.1"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.3"	7.7"	9.2"	8.5"	5.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1150	1080	1025	980	942	908	878
ENERGY (ft.-lbs.)	587	518	466	426	394	366	342
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.2"	-9.6"	-17.3"	-27.7"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.6"	-7.4"	-14.7"	-24.6"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-4.0"	-10.4"	-19.4"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	3.0"	0.0	-5.4"	-13.4"
TRAJ: 125 yds. zero	-.8"	3.5"	5.9"	6.2"	4.3"	0.0	-6.9"
TRAJ: 150 yds. zero	-.8"	4.6"	8.2"	9.7"	8.9"	5.8"	0.0
VELOCITY (fps)	1100	1041	993	953	918	887	859
ENERGY (ft.-lbs.)	537	481	438	403	374	350	327
TRAJ: 25 yds. zero	-.8"	0.0	-1.2"	-4.6"	-10.4"	-18.7"	-29.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-8.0"	-15.7"	-26.2"
TRAJ: 75 yds. zero	-.8"	1.5"	1.9"	0.0	-4.2"	-11.0"	-20.6"
TRAJ: 100 yds. zero	-.8"	2.6"	4.0"	3.2"	0.0	-5.7"	-14.2"
TRAJ: 125 yds. zero	-.8"	3.7"	6.3"	6.6"	4.6"	0.0	-7.3"
TRAJ: 150 yds. zero	-.8"	5.0"	8.7"	10.3"	9.5"	6.1"	0.0
VELOCITY (fps)	1050	1001	960	924	892	864	837
ENERGY (ft.-lbs.)	490	445	409	379	354	331	311
TRAJ: 25 yds. zero	-.8"	0.0	-1.4"	-5.1"	-11.3"	-20.3"	-32.2"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.0"	-8.6"	-16.9"	-28.1"
TRAJ: 75 yds. zero	-.8"	1.7"	2.0"	0.0	-4.6"	-11.8"	-22.0"
TRAJ: 100 yds. zero	-.8"	2.8"	4.3"	3.4"	0.0	-6.1"	-15.2"
TRAJ: 125 yds. zero	-.8"	4.1"	6.8"	7.1"	4.9"	0.0	-7.8"
TRAJ: 150 yds. zero	-.8"	5.4"	9.4"	11.0"	10.1"	6.5"	0.0
VELOCITY (fps)	1000	959	924	892	863	837	812
ENERGY (ft.-lbs.)	444	408	379	353	331	311	292
TRAJ: 25 yds. zero	-.8"	0.0	-1.6"	-5.7"	-12.5"	-22.2"	-35.0"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.3"	-9.4"	-18.3"	-30.4"
TRAJ: 75 yds. zero	-.8"	1.9"	2.2"	0.0	-4.9"	-12.8"	-23.7"
TRAJ: 100 yds. zero	-.8"	3.1"	4.7"	3.7"	0.0	-6.6"	-16.3"
TRAJ: 125 yds. zero	-.8"	4.4"	7.3"	7.7"	5.3"	0.0	-8.4"
TRAJ: 150 yds. zero	-.8"	5.8"	10.1"	11.9"	10.9"	7.0"	0.0
VELOCITY (fps)	950	916	885	857	830	806	783
ENERGY (ft.-lbs.)	401	372	348	326	306	288	272
TRAJ: 25 yds. zero	-.8"	0.0	-1.8"	-6.4"	-13.9"	-24.5"	-38.5"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.7"	-10.3"	-20.1"	-33.2"
TRAJ: 75 yds. zero	-.8"	2.1"	2.4"	0.0	-5.4"	-13.9"	-25.8"
TRAJ: 100 yds. zero	-.8"	3.5"	5.1"	4.0"	0.0	-7.2"	-17.7"
TRAJ: 125 yds. zero	-.8"	4.9"	8.0"	8.4"	5.8"	0.0	-9.1"
TRAJ: 150 yds. zero	-.8"	6.4"	11.1"	12.9"	11.8"	7.6"	0.0
VELOCITY (fps)	900	871	843	818	794	772	750
ENERGY (ft.-lbs.)	360	336	316	297	280	264	250
TRAJ: 25 yds. zero	-.8"	0.0	-2.1"	-7.2"	-15.5"	-27.3"	-42.8"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-4.1"	-11.4"	-22.2"	-36.6"
TRAJ: 75 yds. zero	-.8"	2.4"	2.7"	0.0	-6.0"	-15.4"	-28.4"
TRAJ: 100 yds. zero	-.8"	3.9"	5.7"	4.5"	0.0	-7.9"	-19.4"
TRAJ: 125 yds. zero	-.8"	5.5"	8.9"	9.2"	6.3"	0.0	-10.0"
TRAJ: 150 yds. zero	-.8"	7.1"	12.2"	14.2"	13.0"	8.3"	0.0
VELOCITY (fps)	850	824	800	777	755	734	714
ENERGY (ft.-lbs.)	321	302	284	268	253	239	227
TRAJ: 25 yds. zero	-.8"	0.0	-2.4"	-8.2"	-17.6"	-30.8"	-48.0"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.6"	-12.8"	-24.8"	-40.8"
TRAJ: 75 yds. zero	-.8"	2.7"	3.1"	0.0	-6.7"	-17.1"	-31.6"
TRAJ: 100 yds. zero	-.8"	4.4"	6.4"	5.0"	0.0	-8.8"	-21.6"
TRAJ: 125 yds. zero	-.8"	6.2"	9.9"	10.3"	7.0"	0.0	-11.1"
TRAJ: 150 yds. zero	-.8"	8.0"	13.6"	15.8"	14.4"	9.2"	0.0
VELOCITY (fps)	800	777	755	734	714	695	676
ENERGY (ft.-lbs.)	284	268	253	239	227	214	203
TRAJ: 25 yds. zero	-.8"	0.0	-2.8"	-9.4"	-20.0"	-34.9"	-54.3"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.2"	-14.4"	-27.9"	-45.9"
TRAJ: 75 yds. zero	-.8"	3.1"	3.5"	0.0	-7.5"	-19.2"	-35.5"
TRAJ: 100 yds. zero	-.8"	5.0"	7.2"	5.6"	0.0	-9.9"	-24.2"
TRAJ: 125 yds. zero	-.8"	7.0"	11.2"	11.5"	7.9"	0.0	-12.4"
TRAJ: 150 yds. zero	-.8"	9.0"	15.3"	17.7"	16.2"	10.3"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	750	729	709	690	672	654	636
ENERGY (ft.-lbs.)	250	236	223	212	200	190	180
TRAJ: 25 yds. zero	-.8"	0.0	-3.3"	-10.9"	-23.0"	-40.0"	-62.1"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-6.0"	-16.5"	-31.8"	-52.2"
TRAJ: 75 yds. zero	-.8"	3.6"	4.0"	0.0	-8.5"	-21.9"	-40.3"
TRAJ: 100 yds. zero	-.8"	5.8"	8.2"	6.4"	0.0	-11.2"	-27.5"
TRAJ: 125 yds. zero	-.8"	8.0"	12.7"	13.1"	9.0"	0.0	-14.0"
TRAJ: 150 yds. zero	-.8"	10.3"	17.4"	20.2"	18.3"	11.7"	0.0
VELOCITY (fps)	700	681	663	645	628	611	595
ENERGY (ft.-lbs.)	218	206	195	185	175	166	157
TRAJ: 25 yds. zero	-.8"	0.0	-3.9"	-12.7"	-26.7"	-46.3"	-71.7"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.9"	-19.0"	-36.6"	-60.0"
TRAJ: 75 yds. zero	-.8"	4.2"	4.6"	0.0	-9.8"	-25.1"	-46.2"
TRAJ: 100 yds. zero	-.8"	6.7"	9.5"	7.3"	0.0	-12.9"	-31.6"
TRAJ: 125 yds. zero	-.8"	9.3"	14.6"	15.1"	10.3"	0.0	-16.1"
TRAJ: 150 yds. zero	-.8"	11.9"	20.0"	23.1"	21.0"	13.4"	0.0

45 CALIBER (.451" Dia.) 230 GRAIN FULL METAL JACKET ROUND NOSE
SECTIONAL DENSITY: .162 BALLISTIC COEFFICIENT: .184

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1700	1609	1522	1441	1364	1294	1230
ENERGY (ft.-lbs.)	1476	1322	1183	1060	951	855	773
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.0"	-6.2"	-10.7"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.0"	-6.1"	-10.6"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.5"	-8.7"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.4"	-6.2"
TRAJ: 125 yds. zero	-.8"	1.2"	2.5"	2.7"	1.9"	0.0	-3.2"
TRAJ: 150 yds. zero	-.8"	1.8"	3.5"	4.3"	4.1"	2.7"	0.0
VELOCITY (fps)	1650	1561	1477	1399	1325	1259	1199
ENERGY (ft.-lbs.)	1390	1245	1114	999	897	809	734
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.2"	-3.4"	-6.8"	-11.6"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.2"	-6.6"	-11.3"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.8"	-9.3"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.4"	0.0	-2.6"	-6.6"
TRAJ: 125 yds. zero	-.8"	1.4"	2.6"	2.9"	2.1"	0.0	-3.4"
TRAJ: 150 yds. zero	-.8"	1.9"	3.8"	4.6"	4.4"	2.9"	0.0
VELOCITY (fps)	1600	1514	1433	1357	1287	1224	1168
ENERGY (ft.-lbs.)	1307	1170	1048	940	846	765	697
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.4"	-3.7"	-7.4"	-12.6"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.4"	-7.1"	-12.1"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-1.9"	-5.2"	-9.9"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.5"	0.0	-2.8"	-7.0"
TRAJ: 125 yds. zero	-.8"	1.5"	2.8"	3.1"	2.2"	0.0	-3.7"
TRAJ: 150 yds. zero	-.8"	2.1"	4.0"	4.9"	4.7"	3.0"	0.0
VELOCITY (fps)	1550	1467	1389	1316	1250	1191	1140
ENERGY (ft.-lbs.)	1227	1098	985	885	798	725	663
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.5"	-4.1"	-8.1"	-13.6"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.7"	-7.6"	-13.0"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.5"	-10.5"
TRAJ: 100 yds. zero	-.8"	1.0"	1.9"	1.6"	0.0	-2.9"	-7.4"
TRAJ: 125 yds. zero	-.8"	1.6"	3.0"	3.3"	2.4"	0.0	-3.9"
TRAJ: 150 yds. zero	-.8"	2.3"	4.3"	5.3"	4.9"	3.2"	0.0
VELOCITY (fps)	1500	1420	1345	1276	1214	1160	1112
ENERGY (ft.-lbs.)	1149	1029	924	832	753	687	632
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.8"	-4.6"	-8.9"	-14.8"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.0"	-8.2"	-13.9"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-5.9"	-11.2"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.1"	-7.9"
TRAJ: 125 yds. zero	-.8"	1.8"	3.3"	3.6"	2.5"	0.0	-4.1"
TRAJ: 150 yds. zero	-.8"	2.5"	4.6"	5.6"	5.3"	3.4"	0.0
VELOCITY (fps)	1450	1373	1302	1237	1180	1130	1087
ENERGY (ft.-lbs.)	1074	963	866	782	711	652	603
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.0"	-5.0"	-9.7"	-16.0"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.3"	-8.8"	-14.9"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.4"	-6.3"	-12.0"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.4"	-8.4"
TRAJ: 125 yds. zero	-.8"	1.9"	3.5"	3.8"	2.7"	0.0	-4.4"
TRAJ: 150 yds. zero	-.8"	2.7"	5.0"	6.0"	5.6"	3.7"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1400	1327	1260	1200	1147	1101	1063
ENERGY (ft.-lbs.)	1001	899	810	735	672	620	577
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.5"	-10.5"	-17.3"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.4"	-16.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.1"	0.0	-2.6"	-6.8"	-12.8"
TRAJ: 100 yds. zero	-.8"	1.4"	2.3"	1.9"	0.0	-3.6"	-8.9"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.1"	2.9"	0.0	-4.6"
TRAJ: 150 yds. zero	-.8"	2.9"	5.3"	6.4"	6.0"	3.9"	0.0
VELOCITY (fps)	1350	1281	1218	1163	1116	1075	1039
ENERGY (ft.-lbs.)	931	838	758	691	635	590	552
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.1"	-11.4"	-18.6"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.7"	-5.1"	-10.1"	-17.1"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.8"	-7.3"	-13.6"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0	-3.8"	-9.5"
TRAJ: 125 yds. zero	-.8"	2.3"	4.0"	4.4"	3.0"	0.0	-4.9"
TRAJ: 150 yds. zero	-.8"	3.1"	5.7"	6.8"	6.3"	4.1"	0.0
VELOCITY (fps)	1300	1236	1178	1128	1086	1049	1017
ENERGY (ft.-lbs.)	863	780	709	650	602	562	528
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.7"	-12.4"	-20.1"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.5"	-10.9"	-18.2"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.0"	-7.7"	-14.5"
TRAJ: 100 yds. zero	-.8"	1.7"	2.7"	2.2"	0.0	-4.0"	-10.1"
TRAJ: 125 yds. zero	-.8"	2.5"	4.3"	4.6"	3.2"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.4"	6.1"	7.2"	6.7"	4.3"	0.0
VELOCITY (fps)	1250	1191	1139	1095	1057	1024	995
ENERGY (ft.-lbs.)	798	724	663	612	571	536	506
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.3"	-13.5"	-21.7"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.9"	-11.7"	-19.5"
TRAJ: 75 yds. zero	-.8"	1.0"	1.4"	0.0	-3.2"	-8.3"	-15.4"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.4"	0.0	-4.3"	-10.7"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.0"	3.4"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.7"	7.1"	4.6"	0.0
VELOCITY (fps)	1200	1147	1102	1063	1029	1000	973
ENERGY (ft.-lbs.)	735	672	620	577	541	510	484
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.5"	-8.0"	-14.6"	-23.4"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.3"	-12.5"	-20.8"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.4"	-8.8"	-16.4"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.5"	0.0	-4.6"	-11.3"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.3"	3.7"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	3.9"	6.9"	8.2"	7.6"	4.9"	0.0
VELOCITY (fps)	1150	1104	1065	1031	1001	975	951
ENERGY (ft.-lbs.)	675	623	579	543	512	485	462
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.8"	-15.9"	-25.3"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.8"	-13.4"	-22.3"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.4"	-17.5"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.9"	-12.0"
TRAJ: 125 yds. zero	-.8"	3.2"	5.4"	5.7"	3.9"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.2"	7.4"	8.8"	8.0"	5.1"	0.0
VELOCITY (fps)	1100	1061	1028	999	972	949	927
ENERGY (ft.-lbs.)	618	575	540	509	483	459	438
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.7"	-17.3"	-27.4"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.4"	-14.5"	-24.0"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.1"	-18.7"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.2"	-12.9"
TRAJ: 125 yds. zero	-.8"	3.5"	5.8"	6.1"	4.2"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.6"	8.0"	9.4"	8.6"	5.5"	0.0
VELOCITY (fps)	1050	1018	990	964	941	920	900
ENERGY (ft.-lbs.)	563	529	500	475	452	432	414
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.6"	-18.9"	-29.8"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.9"	-8.1"	-15.7"	-25.9"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.9"	-20.2"
TRAJ: 100 yds. zero	-.8"	2.7"	4.0"	3.2"	0.0	-5.6"	-13.8"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.5"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	5.0"	8.6"	10.1"	9.2"	5.9"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1000	974	950	928	907	888	870
ENERGY (ft.-lbs.)	511	484	461	440	420	403	387
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.8"	-20.8"	-32.6"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.2"	-8.8"	-17.1"	-28.2"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.9"	-21.9"
TRAJ: 100 yds. zero	-.8"	3.0"	4.4"	3.5"	0.0	-6.1"	-14.9"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.1"	4.9"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	5.4"	9.4"	10.9"	10.0"	6.3"	0.0
VELOCITY (fps)	950	928	908	888	870	853	837
ENERGY (ft.-lbs.)	461	440	421	403	387	372	357
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.2"	-23.2"	-36.1"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.7"	-18.9"	-30.9"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.1"	-13.0"	-24.0"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.8"	0.0	-6.7"	-16.3"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.8"	5.3"	0.0	-8.3"
TRAJ: 150 yds. zero	-.8"	6.0"	10.3"	12.0"	10.9"	6.9"	0.0
VELOCITY (fps)	900	881	864	847	830	815	800
ENERGY (ft.-lbs.)	414	397	381	366	352	339	327
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.8"	-25.9"	-40.3"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.8"	-20.9"	-34.3"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.4"	-26.4"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.4"	-18.0"
TRAJ: 125 yds. zero	-.8"	5.2"	8.4"	8.6"	5.9"	0.0	-9.1"
TRAJ: 150 yds. zero	-.8"	6.7"	11.4"	13.2"	12.0"	7.6"	0.0
VELOCITY (fps)	850	834	818	803	788	774	761
ENERGY (ft.-lbs.)	369	355	342	329	317	306	295
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.8"	-29.3"	-45.3"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.2"	-23.5"	-38.3"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-16.1"	-29.5"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.7"	0.0	-8.2"	-20.1"
TRAJ: 125 yds. zero	-.8"	5.9"	9.4"	9.7"	6.6"	0.0	-10.2"
TRAJ: 150 yds. zero	-.8"	7.5"	12.8"	14.7"	13.4"	8.5"	0.0
VELOCITY (fps)	800	786	772	758	745	732	719
ENERGY (ft.-lbs.)	327	315	304	293	283	273	264
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.1"	-19.2"	-33.3"	-51.4"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.8"	-26.5"	-43.2"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.1"	-18.1"	-33.2"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.3"	0.0	-9.2"	-22.5"
TRAJ: 125 yds. zero	-.8"	6.7"	10.6"	10.9"	7.4"	0.0	-11.4"
TRAJ: 150 yds. zero	-.8"	8.6"	14.4"	16.6"	15.0"	9.5"	0.0
VELOCITY (fps)	750	737	724	712	700	688	676
ENERGY (ft.-lbs.)	287	277	268	259	250	242	234
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.5"	-22.1"	-38.2"	-58.9"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.7"	-30.2"	-49.3"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.1"	-20.7"	-37.8"
TRAJ: 100 yds. zero	-.8"	5.5"	7.9"	6.1"	0.0	-10.5"	-25.6"
TRAJ: 125 yds. zero	-.8"	7.6"	12.1"	12.4"	8.4"	0.0	-13.0"
TRAJ: 150 yds. zero	-.8"	9.8"	16.4"	18.9"	17.1"	10.8"	0.0
VELOCITY (fps)	700	688	677	665	654	643	632
ENERGY (ft.-lbs.)	250	242	234	226	218	211	204
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.3"	-25.8"	-44.3"	-68.0"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.6"	-18.2"	-34.8"	-56.7"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.3"	-23.7"	-43.4"
TRAJ: 100 yds. zero	-.8"	6.4"	9.1"	7.0"	0.0	-12.1"	-29.4"
TRAJ: 125 yds. zero	-.8"	8.9"	13.9"	14.2"	9.7"	0.0	-14.9"
TRAJ: 150 yds. zero	-.8"	11.3"	18.9"	21.7"	19.6"	12.4"	0.0
VELOCITY (fps)	650	639	628	618	608	597	587
ENERGY (ft.-lbs.)	216	209	202	195	188	182	176
TRAJ: 25 yds. zero	-.8"	0.0	-4.5"	-14.5"	-30.2"	-51.8"	-79.5"
TRAJ: 50 yds. zero	-.8"	2.3"	0.0	-7.8"	-21.2"	-40.6"	-66.0"
TRAJ: 75 yds. zero	-.8"	4.8"	5.2"	0.0	-10.9"	-27.6"	-50.5"
TRAJ: 100 yds. zero	-.8"	7.6"	10.6"	8.2"	0.0	-14.0"	-34.1"
TRAJ: 125 yds. zero	-.8"	10.4"	16.2"	16.6"	11.2"	0.0	-17.3"
TRAJ: 150 yds. zero	-.8"	13.3"	22.0"	25.2"	22.8"	14.4"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	600	590	580	570	561	551	542
ENERGY (ft.-lbs.)	184	178	172	166	161	155	150
TRAJ: 25 yds. zero	-.8"	0.0	-5.4"	-17.3"	-35.9"	-61.4"	-94.0"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.2"	-25.0"	-47.8"	-77.7"
TRAJ: 75 yds. zero	-.8"	5.8"	6.1"	0.0	-12.8"	-32.5"	-59.4"
TRAJ: 100 yds. zero	-.8"	9.0"	12.5"	9.6"	0.0	-16.5"	-40.2"
TRAJ: 125 yds. zero	-.8"	12.3"	19.1"	19.5"	13.2"	0.0	-20.4"
TRAJ: 150 yds. zero	-.8"	15.7"	25.9"	29.7"	26.8"	17.0"	0.0

45 CALIBER (.451" Dia.) 230 GRAIN FULL METAL JACKET FLAT POINT
SECTIONAL DENSITY: .162 BALLISTIC COEFFICIENT: .168

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1700	1601	1506	1418	1337	1263	1197
ENERGY (ft.-lbs.)	1476	1308	1159	1027	913	814	732
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.1"	-3.1"	-6.4"	-11.1"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.0"	-6.3"	-11.0"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.7"	-4.7"	-9.0"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.5"	-6.4"
TRAJ: 125 yds. zero	-.8"	1.3"	2.5"	2.8"	2.0"	0.0	-3.4"
TRAJ: 150 yds. zero	-.8"	1.9"	3.7"	4.5"	4.3"	2.8"	0.0
VELOCITY (fps)	1650	1553	1462	1377	1299	1229	1168
ENERGY (ft.-lbs.)	1390	1232	1091	968	862	771	696
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.2"	-3.5"	-7.0"	-12.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.3"	-6.8"	-11.7"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.0"	-9.6"
TRAJ: 100 yds. zero	-.8"	0.9"	1.6"	1.4"	0.0	-2.7"	-6.8"
TRAJ: 125 yds. zero	-.8"	1.4"	2.7"	3.0"	2.1"	0.0	-3.6"
TRAJ: 150 yds. zero	-.8"	2.0"	3.9"	4.8"	4.5"	3.0"	0.0
VELOCITY (fps)	1600	1506	1418	1336	1262	1197	1140
ENERGY (ft.-lbs.)	1307	1158	1027	912	814	731	663
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.4"	-3.9"	-7.7"	-13.0"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.5"	-7.3"	-12.5"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.0"	-5.3"	-10.2"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0	-2.9"	-7.2"
TRAJ: 125 yds. zero	-.8"	1.5"	2.9"	3.2"	2.3"	0.0	-3.8"
TRAJ: 150 yds. zero	-.8"	2.2"	4.2"	5.1"	4.8"	3.2"	0.0
VELOCITY (fps)	1550	1459	1374	1297	1227	1166	1113
ENERGY (ft.-lbs.)	1227	1087	964	859	769	694	633
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.3"	-8.4"	-14.1"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-3.8"	-7.8"	-13.4"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.7"	-10.9"
TRAJ: 100 yds. zero	-.8"	1.1"	1.9"	1.6"	0.0	-3.0"	-7.7"
TRAJ: 125 yds. zero	-.8"	1.7"	3.1"	3.4"	2.4"	0.0	-4.0"
TRAJ: 150 yds. zero	-.8"	2.3"	4.5"	5.4"	5.1"	3.4"	0.0
VELOCITY (fps)	1500	1412	1331	1258	1193	1136	1089
ENERGY (ft.-lbs.)	1149	1019	905	808	726	659	605
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.8"	-4.7"	-9.1"	-15.2"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.4"	-4.1"	-8.4"	-14.3"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.3"	-6.1"	-11.6"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.7"	0.0	-3.2"	-8.2"
TRAJ: 125 yds. zero	-.8"	1.8"	3.4"	3.7"	2.6"	0.0	-4.3"
TRAJ: 150 yds. zero	-.8"	2.5"	4.8"	5.8"	5.4"	3.6"	0.0
VELOCITY (fps)	1450	1366	1289	1220	1160	1108	1065
ENERGY (ft.-lbs.)	1074	953	849	760	687	627	579
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.0"	-5.2"	-9.9"	-16.4"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.4"	-9.0"	-15.3"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.5"	-6.5"	-12.3"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.5"	-8.7"
TRAJ: 125 yds. zero	-.8"	2.0"	3.6"	3.9"	2.8"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.7"	5.1"	6.2"	5.8"	3.8"	0.0
VELOCITY (fps)	1400	1320	1248	1184	1129	1082	1043
ENERGY (ft.-lbs.)	1001	890	795	716	651	598	555
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.3"	-5.7"	-10.8"	-17.7"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.8"	-9.7"	-16.4"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.6"	-7.0"	-13.1"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	2.0"	0.0	-3.7"	-9.2"
TRAJ: 125 yds. zero	-.8"	2.2"	3.9"	4.2"	2.9"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	3.0"	5.5"	6.6"	6.1"	4.0"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1350	1275	1207	1149	1099	1057	1021
ENERGY (ft.-lbs.)	931	830	744	674	617	571	533
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.6"	-6.2"	-11.7"	-19.1"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.8"	-5.2"	-10.4"	-17.5"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.8"	-7.4"	-14.0"
TRAJ: 100 yds. zero	-.8"	1.6"	2.6"	2.1"	0.0	-3.9"	-9.7"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.5"	3.1"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	3.2"	5.8"	7.0"	6.5"	4.2"	0.0
VELOCITY (fps)	1300	1230	1168	1116	1071	1033	1001
ENERGY (ft.-lbs.)	863	772	697	635	586	545	511
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.9"	-6.8"	-12.7"	-20.6"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.6"	-11.1"	-18.6"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.0"	-7.9"	-14.8"
TRAJ: 100 yds. zero	-.8"	1.7"	2.8"	2.3"	0.0	-4.1"	-10.3"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.3"	0.0	-5.3"
TRAJ: 150 yds. zero	-.8"	3.4"	6.2"	7.4"	6.9"	4.4"	0.0
VELOCITY (fps)	1250	1186	1130	1084	1044	1010	980
ENERGY (ft.-lbs.)	798	718	652	600	557	521	491
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.2"	-7.5"	-13.7"	-22.1"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.1"	-6.0"	-11.9"	-19.9"
TRAJ: 75 yds. zero	-.8"	1.1"	1.4"	0.0	-3.2"	-8.4"	-15.7"
TRAJ: 100 yds. zero	-.8"	1.9"	3.0"	2.4"	0.0	-4.4"	-10.9"
TRAJ: 125 yds. zero	-.8"	2.7"	4.8"	5.1"	3.5"	0.0	-5.6"
TRAJ: 150 yds. zero	-.8"	3.7"	6.6"	7.9"	7.3"	4.7"	0.0
VELOCITY (fps)	1200	1143	1094	1053	1018	987	959
ENERGY (ft.-lbs.)	735	667	611	566	529	497	470
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.5"	-8.2"	-14.9"	-23.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.7"	-21.2"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.5"	-9.0"	-16.7"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.7"	-11.6"
TRAJ: 125 yds. zero	-.8"	3.0"	5.1"	5.4"	3.7"	0.0	-5.9"
TRAJ: 150 yds. zero	-.8"	4.0"	7.1"	8.4"	7.7"	5.0"	0.0
VELOCITY (fps)	1150	1100	1058	1022	991	963	938
ENERGY (ft.-lbs.)	675	618	572	533	501	474	449
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.9"	-16.1"	-25.7"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.9"	-13.7"	-22.7"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.7"	-9.6"	-17.8"
TRAJ: 100 yds. zero	-.8"	2.2"	3.5"	2.8"	0.0	-5.0"	-12.3"
TRAJ: 125 yds. zero	-.8"	3.2"	5.5"	5.8"	4.0"	0.0	-6.3"
TRAJ: 150 yds. zero	-.8"	4.3"	7.6"	8.9"	8.2"	5.2"	0.0
VELOCITY (fps)	1100	1058	1022	991	963	938	915
ENERGY (ft.-lbs.)	618	571	533	501	474	449	427
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.4"	-9.8"	-17.5"	-27.7"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.5"	-14.7"	-24.3"
TRAJ: 75 yds. zero	-.8"	1.5"	1.8"	0.0	-4.0"	-10.3"	-19.0"
TRAJ: 100 yds. zero	-.8"	2.4"	3.8"	3.0"	0.0	-5.3"	-13.1"
TRAJ: 125 yds. zero	-.8"	3.5"	5.9"	6.2"	4.2"	0.0	-6.7"
TRAJ: 150 yds. zero	-.8"	4.6"	8.1"	9.5"	8.7"	5.6"	0.0
VELOCITY (fps)	1050	1015	985	958	933	910	889
ENERGY (ft.-lbs.)	563	526	495	468	444	423	404
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.9"	-10.8"	-19.1"	-30.2"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-2.9"	-8.1"	-15.9"	-26.2"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.3"	-11.1"	-20.5"
TRAJ: 100 yds. zero	-.8"	2.7"	4.1"	3.2"	0.0	-5.7"	-14.0"
TRAJ: 125 yds. zero	-.8"	3.8"	6.4"	6.6"	4.6"	0.0	-7.2"
TRAJ: 150 yds. zero	-.8"	5.0"	8.7"	10.2"	9.3"	6.0"	0.0
VELOCITY (fps)	1000	971	945	922	900	879	860
ENERGY (ft.-lbs.)	511	482	456	434	414	395	378
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.9"	-21.1"	-33.0"
TRAJ: 50 yds. zero	-.8"	0.8"	0.0	-3.2"	-8.9"	-17.3"	-28.5"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.7"	-12.0"	-22.2"
TRAJ: 100 yds. zero	-.8"	3.0"	4.5"	3.5"	0.0	-6.2"	-15.2"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.2"	4.9"	0.0	-7.7"
TRAJ: 150 yds. zero	-.8"	5.5"	9.5"	11.1"	10.1"	6.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	950	926	904	883	864	845	828
ENERGY (ft.-lbs.)	461	438	417	398	381	365	350
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.3"	-23.4"	-36.5"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.8"	-19.0"	-31.3"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.1"	-13.2"	-24.2"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.8"	0.0	-6.8"	-16.5"
TRAJ: 125 yds. zero	-.8"	4.7"	7.6"	7.9"	5.4"	0.0	-8.4"
TRAJ: 150 yds. zero	-.8"	6.1"	10.4"	12.1"	11.0"	7.0"	0.0
VELOCITY (fps)	900	880	860	842	825	808	792
ENERGY (ft.-lbs.)	414	395	378	362	347	333	320
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-15.0"	-26.1"	-40.7"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.9"	-21.1"	-34.7"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.7"	-14.6"	-26.8"
TRAJ: 100 yds. zero	-.8"	3.7"	5.5"	4.3"	0.0	-7.5"	-18.2"
TRAJ: 125 yds. zero	-.8"	5.2"	8.5"	8.7"	6.0"	0.0	-9.3"
TRAJ: 150 yds. zero	-.8"	6.8"	11.6"	13.4"	12.2"	7.7"	0.0
VELOCITY (fps)	850	832	815	799	783	768	753
ENERGY (ft.-lbs.)	369	354	339	326	313	301	290
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.9"	-29.5"	-45.7"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.3"	-23.6"	-38.7"
TRAJ: 75 yds. zero	-.8"	2.6"	3.0"	0.0	-6.4"	-16.3"	-29.8"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.8"	0.0	-8.3"	-20.3"
TRAJ: 125 yds. zero	-.8"	5.9"	9.5"	9.8"	6.6"	0.0	-10.3"
TRAJ: 150 yds. zero	-.8"	7.6"	12.9"	14.9"	13.5"	8.6"	0.0
VELOCITY (fps)	800	784	769	754	740	726	712
ENERGY (ft.-lbs.)	327	314	302	290	279	269	259
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.1"	-19.3"	-33.5"	-51.8"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.9"	-26.7"	-43.7"
TRAJ: 75 yds. zero	-.8"	3.0"	3.4"	0.0	-7.2"	-18.3"	-33.6"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.4"	0.0	-9.4"	-22.8"
TRAJ: 125 yds. zero	-.8"	6.7"	10.7"	11.0"	7.5"	0.0	-11.6"
TRAJ: 150 yds. zero	-.8"	8.6"	14.6"	16.8"	15.2"	9.7"	0.0
VELOCITY (fps)	750	736	722	708	695	682	670
ENERGY (ft.-lbs.)	287	276	266	256	247	238	229
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.6"	-22.3"	-38.5"	-59.3"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.8"	-15.9"	-30.5"	-49.7"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.2"	-20.8"	-38.1"
TRAJ: 100 yds. zero	-.8"	5.6"	7.9"	6.1"	0.0	-10.6"	-25.9"
TRAJ: 125 yds. zero	-.8"	7.7"	12.2"	12.5"	8.5"	0.0	-13.1"
TRAJ: 150 yds. zero	-.8"	9.9"	16.6"	19.1"	17.2"	10.9"	0.0
VELOCITY (fps)	700	687	674	662	650	638	626
ENERGY (ft.-lbs.)	250	241	232	224	216	208	200
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.4"	-25.9"	-44.6"	-68.6"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.7"	-18.3"	-35.1"	-57.2"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.4"	-24.0"	-43.8"
TRAJ: 100 yds. zero	-.8"	6.5"	9.1"	7.0"	0.0	-12.2"	-29.8"
TRAJ: 125 yds. zero	-.8"	8.9"	14.0"	14.4"	9.8"	0.0	-15.1"
TRAJ: 150 yds. zero	-.8"	11.4"	19.1"	21.9"	19.8"	12.6"	0.0
VELOCITY (fps)	650	638	626	615	604	593	582
ENERGY (ft.-lbs.)	216	208	200	193	186	179	173
TRAJ: 25 yds. zero	-.8"	0.0	-4.5"	-14.6"	-30.4"	-52.2"	-80.1"
TRAJ: 50 yds. zero	-.8"	2.3"	0.0	-7.8"	-21.4"	-40.9"	-66.5"
TRAJ: 75 yds. zero	-.8"	4.9"	5.2"	0.0	-11.0"	-27.8"	-50.9"
TRAJ: 100 yds. zero	-.8"	7.6"	10.7"	8.2"	0.0	-14.1"	-34.5"
TRAJ: 125 yds. zero	-.8"	10.4"	16.3"	16.7"	11.3"	0.0	-17.5"
TRAJ: 150 yds. zero	-.8"	13.4"	22.2"	25.5"	23.0"	14.6"	0.0
VELOCITY (fps)	600	589	578	568	557	547	537
ENERGY (ft.-lbs.)	184	177	171	164	158	153	147
TRAJ: 25 yds. zero	-.8"	0.0	-5.5"	-17.4"	-36.1"	-61.8"	-94.8"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.2"	-25.2"	-48.2"	-78.4"
TRAJ: 75 yds. zero	-.8"	5.8"	6.2"	0.0	-12.9"	-32.8"	-59.9"
TRAJ: 100 yds. zero	-.8"	9.0"	12.6"	9.7"	0.0	-16.7"	-40.6"
TRAJ: 125 yds. zero	-.8"	12.4"	19.3"	19.7"	13.3"	0.0	-20.6"
TRAJ: 150 yds. zero	-.8"	15.8"	26.1"	30.0"	27.1"	17.2"	0.0

45 CALIBER (.452" Dia.) 250 GRAIN LONG COLT XTP HOLLOW POINT
SECTIONAL DENSITY: .175 BALLISTIC COEFFICIENT: .197

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	2000	1904	1812	1722	1636	1554	1475
ENERGY (ft.-lbs.)	2220	2013	1821	1646	1485	1340	1208
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.3"	-1.5"	-3.5"	-6.4"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-1.9"	-4.0"	-7.0"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.1"	-3.0"	-5.8"
TRAJ: 100 yds. zero	-.8"	0.4"	0.9"	0.8"	0.0	-1.6"	-4.2"
TRAJ: 125 yds. zero	-.8"	0.7"	1.6"	1.8"	1.3"	0.0	-2.2"
TRAJ: 150 yds. zero	-.8"	1.1"	2.3"	2.9"	2.8"	1.8"	0.0
VELOCITY (fps)	1950	1856	1765	1677	1593	1513	1437
ENERGY (ft.-lbs.)	2110	1911	1728	1561	1408	1270	1146
TRAJ: 25 yds. zero	-.8"	0.0	0.2"	-0.4"	-1.7"	-3.8"	-6.9"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.6"	-2.0"	-4.2"	-7.4"
TRAJ: 75 yds. zero	-.8"	0.1"	0.4"	0.0	-1.2"	-3.2"	-6.2"
TRAJ: 100 yds. zero	-.8"	0.4"	1.0"	0.9"	0.0	-1.7"	-4.4"
TRAJ: 125 yds. zero	-.8"	0.8"	1.7"	1.9"	1.4"	0.0	-2.3"
TRAJ: 150 yds. zero	-.8"	1.2"	2.5"	3.1"	3.0"	2.0"	0.0
VELOCITY (fps)	1900	1807	1718	1632	1550	1472	1398
ENERGY (ft.-lbs.)	2004	1813	1638	1478	1333	1203	1086
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.5"	-1.9"	-4.2"	-7.5"
TRAJ: 50 yds. zero	-.8"	-0.1"	0.0	-0.7"	-2.2"	-4.5"	-7.9"
TRAJ: 75 yds. zero	-.8"	0.2"	0.4"	0.0	-1.3"	-3.4"	-6.6"
TRAJ: 100 yds. zero	-.8"	0.5"	1.1"	0.9"	0.0	-1.9"	-4.7"
TRAJ: 125 yds. zero	-.8"	0.8"	1.8"	2.1"	1.5"	0.0	-2.5"
TRAJ: 150 yds. zero	-.8"	1.3"	2.6"	3.3"	3.1"	2.1"	0.0
VELOCITY (fps)	1850	1759	1672	1588	1508	1432	1361
ENERGY (ft.-lbs.)	1900	1717	1551	1399	1262	1138	1028
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.6"	-2.1"	-4.6"	-8.2"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.7"	-2.3"	-4.9"	-8.5"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.3"	-3.7"	-7.0"
TRAJ: 100 yds. zero	-.8"	0.5"	1.2"	1.0"	0.0	-2.0"	-5.0"
TRAJ: 125 yds. zero	-.8"	0.9"	1.9"	2.2"	1.6"	0.0	-2.6"
TRAJ: 150 yds. zero	-.8"	1.4"	2.8"	3.5"	3.3"	2.2"	0.0
VELOCITY (fps)	1800	1711	1625	1543	1466	1393	1325
ENERGY (ft.-lbs.)	1798	1625	1466	1322	1193	1077	974
TRAJ: 25 yds. zero	-.8"	0.0	0.1"	-0.7"	-2.4"	-5.1"	-8.9"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.8"	-2.5"	-5.2"	-9.1"
TRAJ: 75 yds. zero	-.8"	0.2"	0.5"	0.0	-1.4"	-3.9"	-7.5"
TRAJ: 100 yds. zero	-.8"	0.6"	1.3"	1.1"	0.0	-2.1"	-5.3"
TRAJ: 125 yds. zero	-.8"	1.0"	2.1"	2.3"	1.7"	0.0	-2.8"
TRAJ: 150 yds. zero	-.8"	1.5"	3.0"	3.7"	3.5"	2.3"	0.0
VELOCITY (fps)	1750	1663	1579	1500	1425	1354	1289
ENERGY (ft.-lbs.)	1700	1535	1384	1248	1126	1018	922
TRAJ: 25 yds. zero	-.8"	0.0	0.0	-0.8"	-2.7"	-5.6"	-9.6"
TRAJ: 50 yds. zero	-.8"	-0.0"	0.0	-0.9"	-2.7"	-5.6"	-9.7"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.5"	-4.2"	-8.0"
TRAJ: 100 yds. zero	-.8"	0.7"	1.3"	1.2"	0.0	-2.2"	-5.6"
TRAJ: 125 yds. zero	-.8"	1.1"	2.2"	2.5"	1.8"	0.0	-3.0"
TRAJ: 150 yds. zero	-.8"	1.6"	3.2"	4.0"	3.8"	2.5"	0.0
VELOCITY (fps)	1700	1615	1534	1456	1384	1317	1255
ENERGY (ft.-lbs.)	1604	1447	1305	1177	1063	962	874
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.0"	-6.1"	-10.5"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-0.9"	-2.9"	-6.0"	-10.4"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.4"	-8.5"
TRAJ: 100 yds. zero	-.8"	0.7"	1.5"	1.2"	0.0	-2.4"	-6.0"
TRAJ: 125 yds. zero	-.8"	1.2"	2.4"	2.7"	1.9"	0.0	-3.2"
TRAJ: 150 yds. zero	-.8"	1.7"	3.5"	4.2"	4.0"	2.6"	0.0
VELOCITY (fps)	1650	1567	1488	1414	1344	1280	1221
ENERGY (ft.-lbs.)	1511	1363	1229	1109	1003	909	828
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.2"	-3.3"	-6.7"	-11.3"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.1"	-6.4"	-11.1"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.7"	-9.0"
TRAJ: 100 yds. zero	-.8"	0.8"	1.6"	1.3"	0.0	-2.5"	-6.4"
TRAJ: 125 yds. zero	-.8"	1.3"	2.6"	2.8"	2.0"	0.0	-3.4"
TRAJ: 150 yds. zero	-.8"	1.9"	3.7"	4.5"	4.3"	2.8"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1600	1519	1443	1372	1305	1244	1190
ENERGY (ft.-lbs.)	1421	1281	1156	1044	945	859	785
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.3"	-3.7"	-7.3"	-12.3"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.4"	-6.9"	-11.9"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.9"	-5.1"	-9.6"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.4"	0.0	-2.7"	-6.8"
TRAJ: 125 yds. zero	-.8"	1.5"	2.8"	3.0"	2.2"	0.0	-3.6"
TRAJ: 150 yds. zero	-.8"	2.0"	4.0"	4.8"	4.5"	3.0"	0.0
VELOCITY (fps)	1550	1472	1399	1330	1267	1210	1159
ENERGY (ft.-lbs.)	1333	1203	1086	982	891	812	746
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.5"	-4.1"	-8.0"	-13.3"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.6"	-7.4"	-12.7"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.0"	-5.4"	-10.3"
TRAJ: 100 yds. zero	-.8"	1.0"	1.8"	1.5"	0.0	-2.9"	-7.2"
TRAJ: 125 yds. zero	-.8"	1.6"	3.0"	3.3"	2.3"	0.0	-3.8"
TRAJ: 150 yds. zero	-.8"	2.2"	4.2"	5.1"	4.8"	3.2"	0.0
VELOCITY (fps)	1500	1425	1354	1289	1230	1177	1130
ENERGY (ft.-lbs.)	1249	1127	1018	923	840	769	709
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.7"	-4.5"	-8.7"	-14.4"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-3.9"	-8.0"	-13.6"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-5.8"	-11.0"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.6"	0.0	-3.1"	-7.7"
TRAJ: 125 yds. zero	-.8"	1.7"	3.2"	3.5"	2.5"	0.0	-4.0"
TRAJ: 150 yds. zero	-.8"	2.4"	4.5"	5.5"	5.1"	3.4"	0.0
VELOCITY (fps)	1450	1378	1311	1250	1194	1146	1103
ENERGY (ft.-lbs.)	1167	1054	954	867	792	728	675
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-2.0"	-5.0"	-9.5"	-15.6"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.4"	-4.3"	-8.6"	-14.6"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.3"	-6.2"	-11.7"
TRAJ: 100 yds. zero	-.8"	1.2"	2.1"	1.8"	0.0	-3.3"	-8.2"
TRAJ: 125 yds. zero	-.8"	1.9"	3.4"	3.7"	2.6"	0.0	-4.3"
TRAJ: 150 yds. zero	-.8"	2.6"	4.9"	5.9"	5.5"	3.6"	0.0
VELOCITY (fps)	1400	1331	1268	1211	1160	1116	1077
ENERGY (ft.-lbs.)	1088	984	893	814	747	691	644
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.5"	-10.3"	-16.9"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.6"	-9.3"	-15.7"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.5"	-6.7"	-12.5"
TRAJ: 100 yds. zero	-.8"	1.4"	2.3"	1.9"	0.0	-3.5"	-8.8"
TRAJ: 125 yds. zero	-.8"	2.1"	3.7"	4.0"	2.8"	0.0	-4.5"
TRAJ: 150 yds. zero	-.8"	2.8"	5.2"	6.3"	5.8"	3.8"	0.0
VELOCITY (fps)	1350	1285	1226	1174	1127	1087	1053
ENERGY (ft.-lbs.)	1012	917	835	765	706	656	615
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.0"	-11.2"	-18.3"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.7"	-5.0"	-10.0"	-16.8"
TRAJ: 75 yds. zero	-.8"	0.8"	1.1"	0.0	-2.7"	-7.1"	-13.4"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.0"	0.0	-3.7"	-9.3"
TRAJ: 125 yds. zero	-.8"	2.2"	4.0"	4.3"	3.0"	0.0	-4.8"
TRAJ: 150 yds. zero	-.8"	3.1"	5.6"	6.7"	6.2"	4.0"	0.0
VELOCITY (fps)	1300	1240	1185	1138	1096	1060	1029
ENERGY (ft.-lbs.)	938	853	780	718	667	624	588
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.6"	-12.2"	-19.8"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.4"	-10.7"	-18.0"
TRAJ: 75 yds. zero	-.8"	0.9"	1.2"	0.0	-2.9"	-7.6"	-14.3"
TRAJ: 100 yds. zero	-.8"	1.7"	2.7"	2.2"	0.0	-4.0"	-9.9"
TRAJ: 125 yds. zero	-.8"	2.4"	4.3"	4.6"	3.2"	0.0	-5.1"
TRAJ: 150 yds. zero	-.8"	3.3"	6.0"	7.1"	6.6"	4.3"	0.0
VELOCITY (fps)	1250	1195	1146	1103	1067	1035	1006
ENERGY (ft.-lbs.)	867	792	729	676	631	594	562
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.3"	-13.3"	-21.4"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.8"	-11.5"	-19.2"
TRAJ: 75 yds. zero	-.8"	1.0"	1.3"	0.0	-3.1"	-8.2"	-15.2"
TRAJ: 100 yds. zero	-.8"	1.8"	2.9"	2.3"	0.0	-4.2"	-10.5"
TRAJ: 125 yds. zero	-.8"	2.7"	4.6"	4.9"	3.4"	0.0	-5.4"
TRAJ: 150 yds. zero	-.8"	3.6"	6.4"	7.6"	7.0"	4.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1200	1150	1107	1070	1038	1009	983
ENERGY (ft.-lbs.)	799	735	681	635	598	565	537
TRAJ: 25 yds. zero	-.8"	0.0	-0.8"	-3.4"	-8.0"	-14.5"	-23.1"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.3"	-12.4"	-20.6"
TRAJ: 75 yds. zero	-.8"	1.1"	1.5"	0.0	-3.4"	-8.7"	-16.2"
TRAJ: 100 yds. zero	-.8"	2.0"	3.1"	2.5"	0.0	-4.5"	-11.2"
TRAJ: 125 yds. zero	-.8"	2.9"	4.9"	5.2"	3.6"	0.0	-5.7"
TRAJ: 150 yds. zero	-.8"	3.9"	6.9"	8.1"	7.4"	4.8"	0.0
VELOCITY (fps)	1150	1107	1070	1037	1009	983	960
ENERGY (ft.-lbs.)	734	680	635	597	565	537	512
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.8"	-8.7"	-15.7"	-25.0"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.8"	-13.3"	-22.1"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.6"	-9.3"	-17.3"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.8"	-11.9"
TRAJ: 125 yds. zero	-.8"	3.1"	5.3"	5.6"	3.9"	0.0	-6.1"
TRAJ: 150 yds. zero	-.8"	4.2"	7.4"	8.6"	7.9"	5.1"	0.0
VELOCITY (fps)	1100	1064	1032	1004	979	956	935
ENERGY (ft.-lbs.)	672	628	591	560	532	507	485
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.6"	-17.1"	-27.1"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.3"	-14.4"	-23.7"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.0"	-18.5"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.2"	-12.7"
TRAJ: 125 yds. zero	-.8"	3.4"	5.7"	6.0"	4.1"	0.0	-6.5"
TRAJ: 150 yds. zero	-.8"	4.5"	7.9"	9.3"	8.5"	5.4"	0.0
VELOCITY (fps)	1050	1020	993	969	947	927	908
ENERGY (ft.-lbs.)	612	577	548	521	498	477	457
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.6"	-18.8"	-29.5"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.8"	-8.0"	-15.6"	-25.6"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-10.8"	-20.0"
TRAJ: 100 yds. zero	-.8"	2.6"	4.0"	3.2"	0.0	-5.6"	-13.7"
TRAJ: 125 yds. zero	-.8"	3.8"	6.2"	6.5"	4.5"	0.0	-7.0"
TRAJ: 150 yds. zero	-.8"	4.9"	8.5"	10.0"	9.1"	5.8"	0.0
VELOCITY (fps)	1000	975	953	932	913	894	877
ENERGY (ft.-lbs.)	555	528	504	482	462	444	427
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.7"	-20.7"	-32.4"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.1"	-8.8"	-17.0"	-27.9"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.8"	-21.7"
TRAJ: 100 yds. zero	-.8"	2.9"	4.4"	3.4"	0.0	-6.0"	-14.8"
TRAJ: 125 yds. zero	-.8"	4.1"	6.8"	7.1"	4.8"	0.0	-7.5"
TRAJ: 150 yds. zero	-.8"	5.4"	9.3"	10.8"	9.9"	6.3"	0.0
VELOCITY (fps)	950	929	910	892	875	859	843
ENERGY (ft.-lbs.)	501	479	460	442	425	409	395
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.0"	-13.1"	-23.0"	-35.8"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.7"	-18.7"	-30.7"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.0"	-12.9"	-23.8"
TRAJ: 100 yds. zero	-.8"	3.3"	4.8"	3.8"	0.0	-6.6"	-16.2"
TRAJ: 125 yds. zero	-.8"	4.6"	7.5"	7.8"	5.3"	0.0	-8.2"
TRAJ: 150 yds. zero	-.8"	6.0"	10.2"	11.9"	10.8"	6.9"	0.0
VELOCITY (fps)	900	882	866	850	835	820	806
ENERGY (ft.-lbs.)	450	432	416	401	387	373	360
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.8"	-25.8"	-40.0"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.8"	-20.8"	-34.0"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.3"	-26.3"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.3"	-17.9"
TRAJ: 125 yds. zero	-.8"	5.2"	8.3"	8.6"	5.8"	0.0	-9.1"
TRAJ: 150 yds. zero	-.8"	6.7"	11.3"	13.1"	11.9"	7.6"	0.0
VELOCITY (fps)	850	835	820	806	792	779	766
ENERGY (ft.-lbs.)	401	387	373	361	348	337	326
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.7"	-29.1"	-45.0"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.1"	-23.3"	-38.1"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-16.0"	-29.3"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.7"	0.0	-8.2"	-19.9"
TRAJ: 125 yds. zero	-.8"	5.8"	9.3"	9.6"	6.5"	0.0	-10.1"
TRAJ: 150 yds. zero	-.8"	7.5"	12.7"	14.6"	13.3"	8.4"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	800	787	773	761	748	736	724
ENERGY (ft.-lbs.)	355	343	332	321	311	301	291
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.0"	-19.1"	-33.1"	-51.1"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.7"	-26.3"	-43.0"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.1"	-18.0"	-33.0"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.3"	0.0	-9.2"	-22.4"
TRAJ: 125 yds. zero	-.8"	6.6"	10.5"	10.8"	7.4"	0.0	-11.4"
TRAJ: 150 yds. zero	-.8"	8.5"	14.3"	16.5"	14.9"	9.5"	0.0
VELOCITY (fps)	750	738	726	714	703	692	681
ENERGY (ft.-lbs.)	312	302	293	283	274	266	257
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.5"	-22.1"	-38.0"	-58.5"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.7"	-30.0"	-48.9"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.1"	-20.5"	-37.5"
TRAJ: 100 yds. zero	-.8"	5.5"	7.8"	6.0"	0.0	-10.4"	-25.4"
TRAJ: 125 yds. zero	-.8"	7.6"	12.0"	12.3"	8.3"	0.0	-12.9"
TRAJ: 150 yds. zero	-.8"	9.7"	16.3"	18.7"	16.9"	10.7"	0.0
VELOCITY (fps)	700	689	678	667	657	647	636
ENERGY (ft.-lbs.)	272	263	255	247	240	232	225
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.3"	-25.7"	-44.1"	-67.7"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.6"	-18.1"	-34.6"	-56.3"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.3"	-23.6"	-43.1"
TRAJ: 100 yds. zero	-.8"	6.4"	9.1"	7.0"	0.0	-12.0"	-29.2"
TRAJ: 125 yds. zero	-.8"	8.8"	13.8"	14.2"	9.6"	0.0	-14.8"
TRAJ: 150 yds. zero	-.8"	11.3"	18.8"	21.6"	19.5"	12.3"	0.0

45 CALIBER (.452" Dia.) 300 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .210 BALLISTIC COEFFICIENT: .180

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1700	1607	1519	1435	1358	1287	1222
ENERGY (ft.-lbs.)	1925	1720	1536	1372	1228	1103	995
TRAJ: 25 yds. zero	-.8"	0.0	-0.0"	-1.0"	-3.1"	-6.3"	-10.8"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.0"	-6.2"	-10.7"
TRAJ: 75 yds. zero	-.8"	0.3"	0.6"	0.0	-1.7"	-4.6"	-8.8"
TRAJ: 100 yds. zero	-.8"	0.8"	1.5"	1.3"	0.0	-2.5"	-6.2"
TRAJ: 125 yds. zero	-.8"	1.3"	2.5"	2.7"	2.0"	0.0	-3.3"
TRAJ: 150 yds. zero	-.8"	1.8"	3.6"	4.4"	4.1"	2.7"	0.0
VELOCITY (fps)	1650	1559	1474	1393	1319	1252	1191
ENERGY (ft.-lbs.)	1813	1620	1447	1293	1159	1043	945
TRAJ: 25 yds. zero	-.8"	0.0	-0.1"	-1.2"	-3.4"	-6.9"	-11.7"
TRAJ: 50 yds. zero	-.8"	0.0	0.0	-1.0"	-3.2"	-6.6"	-11.4"
TRAJ: 75 yds. zero	-.8"	0.4"	0.7"	0.0	-1.8"	-4.9"	-9.3"
TRAJ: 100 yds. zero	-.8"	0.9"	1.6"	1.4"	0.0	-2.6"	-6.6"
TRAJ: 125 yds. zero	-.8"	1.4"	2.7"	2.9"	2.1"	0.0	-3.5"
TRAJ: 150 yds. zero	-.8"	2.0"	3.8"	4.7"	4.4"	2.9"	0.0
VELOCITY (fps)	1600	1512	1429	1352	1281	1218	1161
ENERGY (ft.-lbs.)	1705	1523	1361	1218	1094	987	898
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.4"	-3.8"	-7.5"	-12.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.1"	-3.5"	-7.1"	-12.2"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-1.9"	-5.2"	-10.0"
TRAJ: 100 yds. zero	-.8"	0.9"	1.7"	1.5"	0.0	-2.8"	-7.0"
TRAJ: 125 yds. zero	-.8"	1.5"	2.8"	3.1"	2.2"	0.0	-3.7"
TRAJ: 150 yds. zero	-.8"	2.1"	4.1"	5.0"	4.7"	3.1"	0.0
VELOCITY (fps)	1550	1465	1385	1312	1245	1185	1133
ENERGY (ft.-lbs.)	1600	1429	1278	1146	1032	935	855
TRAJ: 25 yds. zero	-.8"	0.0	-0.2"	-1.6"	-4.2"	-8.2"	-13.7"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.2"	-3.7"	-7.6"	-13.1"
TRAJ: 75 yds. zero	-.8"	0.5"	0.8"	0.0	-2.1"	-5.6"	-10.6"
TRAJ: 100 yds. zero	-.8"	1.0"	1.9"	1.6"	0.0	-3.0"	-7.5"
TRAJ: 125 yds. zero	-.8"	1.6"	3.1"	3.3"	2.4"	0.0	-3.9"
TRAJ: 150 yds. zero	-.8"	2.3"	4.4"	5.3"	5.0"	3.3"	0.0
VELOCITY (fps)	1500	1418	1342	1272	1209	1154	1107
ENERGY (ft.-lbs.)	1499	1339	1199	1078	974	887	816
TRAJ: 25 yds. zero	-.8"	0.0	-0.3"	-1.8"	-4.6"	-8.9"	-14.9"
TRAJ: 50 yds. zero	-.8"	0.1"	0.0	-1.3"	-4.0"	-8.2"	-14.0"
TRAJ: 75 yds. zero	-.8"	0.6"	0.9"	0.0	-2.2"	-6.0"	-11.3"
TRAJ: 100 yds. zero	-.8"	1.1"	2.0"	1.7"	0.0	-3.2"	-8.0"
TRAJ: 125 yds. zero	-.8"	1.8"	3.3"	3.6"	2.5"	0.0	-4.2"
TRAJ: 150 yds. zero	-.8"	2.5"	4.7"	5.7"	5.3"	3.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1450	1371	1299	1233	1175	1125	1082
ENERGY (ft.-lbs.)	1400	1253	1124	1013	920	842	779
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.0"	-5.1"	-9.7"	-16.1"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.5"	-4.4"	-8.8"	-15.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.0"	0.0	-2.4"	-6.4"	-12.1"
TRAJ: 100 yds. zero	-.8"	1.3"	2.2"	1.8"	0.0	-3.4"	-8.5"
TRAJ: 125 yds. zero	-.8"	1.9"	3.5"	3.8"	2.7"	0.0	-4.4"
TRAJ: 150 yds. zero	-.8"	2.7"	5.0"	6.0"	5.6"	3.7"	0.0
VELOCITY (fps)	1400	1325	1257	1196	1143	1097	1058
ENERGY (ft.-lbs.)	1305	1170	1052	953	870	801	745
TRAJ: 25 yds. zero	-.8"	0.0	-0.4"	-2.2"	-5.6"	-10.6"	-17.4"
TRAJ: 50 yds. zero	-.8"	0.2"	0.0	-1.6"	-4.7"	-9.5"	-16.0"
TRAJ: 75 yds. zero	-.8"	0.7"	1.1"	0.0	-2.6"	-6.8"	-12.9"
TRAJ: 100 yds. zero	-.8"	1.4"	2.4"	1.9"	0.0	-3.6"	-9.0"
TRAJ: 125 yds. zero	-.8"	2.1"	3.8"	4.1"	2.9"	0.0	-4.7"
TRAJ: 150 yds. zero	-.8"	2.9"	5.3"	6.4"	6.0"	3.9"	0.0
VELOCITY (fps)	1350	1279	1216	1160	1112	1070	1035
ENERGY (ft.-lbs.)	1214	1090	985	896	823	763	714
TRAJ: 25 yds. zero	-.8"	0.0	-0.5"	-2.5"	-6.1"	-11.5"	-18.7"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.7"	-5.1"	-10.2"	-17.2"
TRAJ: 75 yds. zero	-.8"	0.8"	1.2"	0.0	-2.8"	-7.3"	-13.7"
TRAJ: 100 yds. zero	-.8"	1.5"	2.5"	2.1"	0.0	-3.8"	-9.5"
TRAJ: 125 yds. zero	-.8"	2.3"	4.1"	4.4"	3.1"	0.0	-5.0"
TRAJ: 150 yds. zero	-.8"	3.1"	5.7"	6.8"	6.4"	4.1"	0.0
VELOCITY (fps)	1300	1234	1176	1125	1082	1045	1013
ENERGY (ft.-lbs.)	1126	1015	921	844	780	728	684
TRAJ: 25 yds. zero	-.8"	0.0	-0.6"	-2.8"	-6.7"	-12.5"	-20.2"
TRAJ: 50 yds. zero	-.8"	0.3"	0.0	-1.9"	-5.5"	-10.9"	-18.3"
TRAJ: 75 yds. zero	-.8"	0.9"	1.3"	0.0	-3.0"	-7.8"	-14.6"
TRAJ: 100 yds. zero	-.8"	1.7"	2.7"	2.2"	0.0	-4.1"	-10.1"
TRAJ: 125 yds. zero	-.8"	2.5"	4.4"	4.7"	3.3"	0.0	-5.2"
TRAJ: 150 yds. zero	-.8"	3.4"	6.1"	7.3"	6.7"	4.4"	0.0
VELOCITY (fps)	1250	1190	1137	1092	1054	1021	992
ENERGY (ft.-lbs.)	1041	943	861	795	740	694	655
TRAJ: 25 yds. zero	-.8"	0.0	-0.7"	-3.1"	-7.4"	-13.5"	-21.8"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.0"	-5.9"	-11.7"	-19.6"
TRAJ: 75 yds. zero	-.8"	1.0"	1.4"	0.0	-3.2"	-8.3"	-15.5"
TRAJ: 100 yds. zero	-.8"	1.8"	3.0"	2.4"	0.0	-4.3"	-10.7"
TRAJ: 125 yds. zero	-.8"	2.7"	4.7"	5.0"	3.5"	0.0	-5.5"
TRAJ: 150 yds. zero	-.8"	3.6"	6.5"	7.7"	7.2"	4.6"	0.0
VELOCITY (fps)	1200	1146	1100	1060	1026	997	970
ENERGY (ft.-lbs.)	959	875	806	749	702	662	627
TRAJ: 25 yds. zero	-.8"	0.0	-0.9"	-3.5"	-8.1"	-14.7"	-23.5"
TRAJ: 50 yds. zero	-.8"	0.4"	0.0	-2.2"	-6.4"	-12.6"	-20.9"
TRAJ: 75 yds. zero	-.8"	1.2"	1.5"	0.0	-3.4"	-8.9"	-16.5"
TRAJ: 100 yds. zero	-.8"	2.0"	3.2"	2.6"	0.0	-4.6"	-11.4"
TRAJ: 125 yds. zero	-.8"	2.9"	5.0"	5.3"	3.7"	0.0	-5.8"
TRAJ: 150 yds. zero	-.8"	3.9"	7.0"	8.2"	7.6"	4.9"	0.0
VELOCITY (fps)	1150	1103	1063	1029	999	972	948
ENERGY (ft.-lbs.)	881	811	753	705	664	629	598
TRAJ: 25 yds. zero	-.8"	0.0	-1.0"	-3.9"	-8.8"	-16.0"	-25.4"
TRAJ: 50 yds. zero	-.8"	0.5"	0.0	-2.4"	-6.9"	-13.5"	-22.4"
TRAJ: 75 yds. zero	-.8"	1.3"	1.6"	0.0	-3.7"	-9.5"	-17.6"
TRAJ: 100 yds. zero	-.8"	2.2"	3.4"	2.7"	0.0	-4.9"	-12.1"
TRAJ: 125 yds. zero	-.8"	3.2"	5.4"	5.7"	3.9"	0.0	-6.2"
TRAJ: 150 yds. zero	-.8"	4.2"	7.5"	8.8"	8.1"	5.2"	0.0
VELOCITY (fps)	1100	1061	1027	997	970	946	924
ENERGY (ft.-lbs.)	806	749	702	662	627	596	569
TRAJ: 25 yds. zero	-.8"	0.0	-1.1"	-4.3"	-9.7"	-17.4"	-27.4"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.6"	-7.4"	-14.5"	-24.1"
TRAJ: 75 yds. zero	-.8"	1.4"	1.7"	0.0	-3.9"	-10.2"	-18.8"
TRAJ: 100 yds. zero	-.8"	2.4"	3.7"	2.9"	0.0	-5.3"	-12.9"
TRAJ: 125 yds. zero	-.8"	3.5"	5.8"	6.1"	4.2"	0.0	-6.6"
TRAJ: 150 yds. zero	-.8"	4.6"	8.0"	9.4"	8.6"	5.5"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	1050	1017	989	963	939	918	897
ENERGY (ft.-lbs.)	734	689	651	617	588	561	536
TRAJ: 25 yds. zero	-.8"	0.0	-1.3"	-4.8"	-10.7"	-19.0"	-29.9"
TRAJ: 50 yds. zero	-.8"	0.6"	0.0	-2.9"	-8.1"	-15.7"	-26.0"
TRAJ: 75 yds. zero	-.8"	1.6"	1.9"	0.0	-4.2"	-11.0"	-20.2"
TRAJ: 100 yds. zero	-.8"	2.7"	4.0"	3.2"	0.0	-5.6"	-13.9"
TRAJ: 125 yds. zero	-.8"	3.8"	6.3"	6.6"	4.5"	0.0	-7.1"
TRAJ: 150 yds. zero	-.8"	5.0"	8.7"	10.1"	9.2"	5.9"	0.0
VELOCITY (fps)	1000	973	949	926	906	886	868
ENERGY (ft.-lbs.)	666	631	600	572	546	523	502
TRAJ: 25 yds. zero	-.8"	0.0	-1.5"	-5.4"	-11.8"	-20.9"	-32.7"
TRAJ: 50 yds. zero	-.8"	0.7"	0.0	-3.2"	-8.8"	-17.2"	-28.3"
TRAJ: 75 yds. zero	-.8"	1.8"	2.1"	0.0	-4.6"	-11.9"	-21.9"
TRAJ: 100 yds. zero	-.8"	3.0"	4.4"	3.5"	0.0	-6.1"	-15.0"
TRAJ: 125 yds. zero	-.8"	4.2"	6.9"	7.1"	4.9"	0.0	-7.6"
TRAJ: 150 yds. zero	-.8"	5.5"	9.4"	11.0"	10.0"	6.4"	0.0
VELOCITY (fps)	950	928	907	887	869	851	835
ENERGY (ft.-lbs.)	601	573	548	524	503	483	464
TRAJ: 25 yds. zero	-.8"	0.0	-1.7"	-6.1"	-13.2"	-23.2"	-36.2"
TRAJ: 50 yds. zero	-.8"	0.9"	0.0	-3.5"	-9.8"	-18.9"	-31.0"
TRAJ: 75 yds. zero	-.8"	2.0"	2.3"	0.0	-5.1"	-13.1"	-24.0"
TRAJ: 100 yds. zero	-.8"	3.3"	4.9"	3.8"	0.0	-6.7"	-16.4"
TRAJ: 125 yds. zero	-.8"	4.6"	7.6"	7.8"	5.4"	0.0	-8.4"
TRAJ: 150 yds. zero	-.8"	6.0"	10.3"	12.0"	10.9"	7.0"	0.0
VELOCITY (fps)	900	881	863	846	829	813	798
ENERGY (ft.-lbs.)	539	517	496	476	458	441	424
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.9"	-14.9"	-26.0"	-40.4"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.9"	-21.0"	-34.4"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.4"	-26.5"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.4"	-18.1"
TRAJ: 125 yds. zero	-.8"	5.2"	8.4"	8.7"	5.9"	0.0	-9.2"
TRAJ: 150 yds. zero	-.8"	6.7"	11.5"	13.3"	12.0"	7.7"	0.0
VELOCITY (fps)	850	833	817	802	787	773	759
ENERGY (ft.-lbs.)	481	463	445	428	413	398	384
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.9"	-16.9"	-29.3"	-45.4"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.2"	-23.5"	-38.4"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.3"	-16.1"	-29.6"
TRAJ: 100 yds. zero	-.8"	4.2"	6.1"	4.7"	0.0	-8.2"	-20.1"
TRAJ: 125 yds. zero	-.8"	5.9"	9.4"	9.7"	6.6"	0.0	-10.2"
TRAJ: 150 yds. zero	-.8"	7.6"	12.8"	14.8"	13.4"	8.5"	0.0
VELOCITY (fps)	800	785	771	757	744	730	718
ENERGY (ft.-lbs.)	426	411	396	382	368	355	343
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.1"	-19.3"	-33.3"	-51.5"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.8"	-26.5"	-43.4"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.1"	-18.2"	-33.3"
TRAJ: 100 yds. zero	-.8"	4.8"	6.9"	5.3"	0.0	-9.3"	-22.6"
TRAJ: 125 yds. zero	-.8"	6.7"	10.6"	10.9"	7.4"	0.0	-11.5"
TRAJ: 150 yds. zero	-.8"	8.6"	14.5"	16.7"	15.1"	9.6"	0.0
VELOCITY (fps)	750	737	724	711	699	687	675
ENERGY (ft.-lbs.)	375	361	349	337	325	314	303
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.5"	-22.2"	-38.3"	-59.0"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.8"	-30.3"	-49.4"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.1"	-20.7"	-37.9"
TRAJ: 100 yds. zero	-.8"	5.5"	7.9"	6.1"	0.0	-10.6"	-25.7"
TRAJ: 125 yds. zero	-.8"	7.7"	12.1"	12.4"	8.4"	0.0	-13.0"
TRAJ: 150 yds. zero	-.8"	9.8"	16.5"	18.9"	17.1"	10.9"	0.0
VELOCITY (fps)	700	688	676	664	653	642	631
ENERGY (ft.-lbs.)	326	315	304	294	284	274	265
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.3"	-25.8"	-44.3"	-68.1"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.6"	-18.2"	-34.9"	-56.8"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.3"	-23.8"	-43.5"
TRAJ: 100 yds. zero	-.8"	6.4"	9.1"	7.0"	0.0	-12.1"	-29.4"
TRAJ: 125 yds. zero	-.8"	8.9"	13.9"	14.3"	9.7"	0.0	-14.9"
TRAJ: 150 yds. zero	-.8"	11.4"	18.9"	21.7"	19.6"	12.4"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	650	639	628	617	607	596	586
ENERGY (ft.-lbs.)	281	272	263	254	245	237	229
TRAJ: 25 yds. zero	-.8"	0.0	-4.5"	-14.5"	-30.3"	-51.9"	-79.7"
TRAJ: 50 yds. zero	-.8"	2.3"	0.0	-7.8"	-21.3"	-40.6"	-66.1"
TRAJ: 75 yds. zero	-.8"	4.8"	5.2"	0.0	-10.9"	-27.7"	-50.6"
TRAJ: 100 yds. zero	-.8"	7.6"	10.6"	8.2"	0.0	-14.1"	-34.2"
TRAJ: 125 yds. zero	-.8"	10.4"	16.3"	16.6"	11.3"	0.0	-17.3"
TRAJ: 150 yds. zero	-.8"	13.3"	22.0"	25.3"	22.8"	14.4"	0.0
VELOCITY (fps)	600	590	580	570	560	550	541
ENERGY (ft.-lbs.)	240	232	224	216	209	202	195
TRAJ: 25 yds. zero	-.8"	0.0	-5.4"	-17.3"	-35.9"	-61.5"	-94.2"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.2"	-25.1"	-47.9"	-77.9"
TRAJ: 75 yds. zero	-.8"	5.8"	6.1"	0.0	-12.8"	-32.6"	-59.5"
TRAJ: 100 yds. zero	-.8"	9.0"	12.5"	9.6"	0.0	-16.5"	-40.3"
TRAJ: 125 yds. zero	-.8"	12.3"	19.1"	19.5"	13.2"	0.0	-20.4"
TRAJ: 150 yds. zero	-.8"	15.7"	26.0"	29.7"	26.8"	17.0"	0.0

45 CALIBER (.452" Dia.) 200 GRAIN LEAD SEMI-WADCUTTER
SECTIONAL DENSITY: .140 BALLISTIC COEFFICIENT: .070

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	900	853	811	773	738	705	674
ENERGY (ft.-lbs.)	360	323	292	265	242	221	202
TRAJ: 25 yds. zero	-.8"	0.0	-2.2"	-7.7"	-16.8"	-29.9"	-47.3"
TRAJ: 50 yds. zero	-.8"	1.1"	0.0	-4.4"	-12.4"	-24.4"	-40.7"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.6"	-17.1"	-32.0"
TRAJ: 100 yds. zero	-.8"	4.2"	6.2"	4.9"	0.0	-8.9"	-22.1"
TRAJ: 125 yds. zero	-.8"	6.0"	9.8"	10.3"	7.1"	0.0	-11.5"
TRAJ: 150 yds. zero	-.8"	7.9"	13.6"	16.0"	14.8"	9.5"	0.0
VELOCITY (fps)	850	809	771	736	703	672	643
ENERGY (ft.-lbs.)	321	290	264	240	220	201	184
TRAJ: 25 yds. zero	-.8"	0.0	-2.5"	-8.7"	-18.9"	-33.4"	-52.8"
TRAJ: 50 yds. zero	-.8"	1.3"	0.0	-4.9"	-13.8"	-27.1"	-45.2"
TRAJ: 75 yds. zero	-.8"	2.9"	3.3"	0.0	-7.3"	-18.9"	-35.4"
TRAJ: 100 yds. zero	-.8"	4.7"	6.9"	5.5"	0.0	-9.8"	-24.5"
TRAJ: 125 yds. zero	-.8"	6.7"	10.9"	11.4"	7.9"	0.0	-12.7"
TRAJ: 150 yds. zero	-.8"	8.8"	15.1"	17.7"	16.3"	10.6"	0.0
VELOCITY (fps)	800	763	729	696	666	637	609
ENERGY (ft.-lbs.)	284	258	236	215	197	180	165
TRAJ: 25 yds. zero	-.8"	0.0	-2.9"	-10.0"	-21.5"	-37.8"	-59.6"
TRAJ: 50 yds. zero	-.8"	1.5"	0.0	-5.6"	-15.6"	-30.5"	-50.8"
TRAJ: 75 yds. zero	-.8"	3.3"	3.7"	0.0	-8.2"	-21.3"	-39.7"
TRAJ: 100 yds. zero	-.8"	5.4"	7.8"	6.1"	0.0	-11.0"	-27.4"
TRAJ: 125 yds. zero	-.8"	7.6"	12.2"	12.8"	8.8"	0.0	-14.2"
TRAJ: 150 yds. zero	-.8"	9.9"	16.9"	19.8"	18.3"	11.8"	0.0
VELOCITY (fps)	750	716	685	655	627	599	573
ENERGY (ft.-lbs.)	250	228	208	191	174	160	146
TRAJ: 25 yds. zero	-.8"	0.0	-3.4"	-11.5"	-24.6"	-43.3"	-68.0"
TRAJ: 50 yds. zero	-.8"	1.7"	0.0	-6.3"	-17.7"	-34.7"	-57.7"
TRAJ: 75 yds. zero	-.8"	3.8"	4.2"	0.0	-9.3"	-24.1"	-45.0"
TRAJ: 100 yds. zero	-.8"	6.2"	8.9"	7.0"	0.0	-12.5"	-31.0"
TRAJ: 125 yds. zero	-.8"	8.7"	13.9"	14.5"	10.0"	0.0	-16.0"
TRAJ: 150 yds. zero	-.8"	11.3"	19.2"	22.5"	20.7"	13.4"	0.0
VELOCITY (fps)	700	669	640	612	586	560	536
ENERGY (ft.-lbs.)	218	199	182	167	152	139	127
TRAJ: 25 yds. zero	-.8"	0.0	-4.1"	-13.4"	-28.6"	-50.0"	-78.4"
TRAJ: 50 yds. zero	-.8"	2.0"	0.0	-7.3"	-20.5"	-39.9"	-66.3"
TRAJ: 75 yds. zero	-.8"	4.5"	4.9"	0.0	-10.7"	-27.7"	-51.6"
TRAJ: 100 yds. zero	-.8"	7.1"	10.2"	8.0"	0.0	-14.3"	-35.6"
TRAJ: 125 yds. zero	-.8"	10.0"	15.9"	16.6"	11.4"	0.0	-18.4"
TRAJ: 150 yds. zero	-.8"	13.1"	22.1"	25.8"	23.7"	15.3"	0.0
VELOCITY (fps)	650	622	595	569	544	520	497
ENERGY (ft.-lbs.)	188	172	157	144	131	120	110
TRAJ: 25 yds. zero	-.8"	0.0	-4.8"	-15.8"	-33.5"	-58.4"	-91.5"
TRAJ: 50 yds. zero	-.8"	2.4"	0.0	-8.5"	-23.8"	-46.4"	-77.0"
TRAJ: 75 yds. zero	-.8"	5.3"	5.7"	0.0	-12.4"	-32.1"	-60.0"
TRAJ: 100 yds. zero	-.8"	8.4"	11.9"	9.3"	0.0	-16.6"	-41.3"
TRAJ: 125 yds. zero	-.8"	11.7"	18.5"	19.3"	13.3"	0.0	-21.4"
TRAJ: 150 yds. zero	-.8"	15.3"	25.7"	30.0"	27.5"	17.8"	0.0

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	600	574	549	525	502	479	458
ENERGY (ft.-lbs.)	160	146	134	122	112	102	93
TRAJ: 25 yds. zero	-.8"	0.0	-5.8"	-18.8"	-39.7"	-69.2"	-108.2"
TRAJ: 50 yds. zero	-.8"	2.9"	0.0	-10.1"	-28.1"	-54.7"	-90.8"
TRAJ: 75 yds. zero	-.8"	6.3"	6.7"	0.0	-14.6"	-37.9"	-70.6"
TRAJ: 100 yds. zero	-.8"	9.9"	14.1"	11.0"	0.0	-19.6"	-48.7"
TRAJ: 125 yds. zero	-.8"	13.8"	21.9"	22.7"	15.7"	0.0	-25.2"
TRAJ: 150 yds. zero	-.8"	18.0"	30.3"	35.3"	32.5"	21.0"	0.0

45 CALIBER (.452" Dia.) 200 GRAIN LEAD COMBAT TARGET
SECTIONAL DENSITY: .140 BALLISTIC COEFFICIENT: .081

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	900	859	822	788	757	727	699
ENERGY (ft.-lbs.)	360	328	300	276	254	235	217
TRAJ: 25 yds. zero	-.8"	0.0	-2.1"	-7.5"	-16.3"	-29.0"	-45.7"
TRAJ: 50 yds. zero	-.8"	1.1"	0.0	-4.3"	-12.1"	-23.6"	-39.3"
TRAJ: 75 yds. zero	-.8"	2.5"	2.9"	0.0	-6.3"	-16.5"	-30.7"
TRAJ: 100 yds. zero	-.8"	4.1"	6.0"	4.8"	0.0	-8.5"	-21.2"
TRAJ: 125 yds. zero	-.8"	5.8"	9.4"	9.9"	6.8"	0.0	-10.9"
TRAJ: 150 yds. zero	-.8"	7.6"	13.1"	15.3"	14.1"	9.1"	0.0
VELOCITY (fps)	850	814	781	750	721	693	667
ENERGY (ft.-lbs.)	321	294	271	250	231	213	197
TRAJ: 25 yds. zero	-.8"	0.0	-2.5"	-8.5"	-18.4"	-32.5"	-51.1"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.8"	-13.5"	-26.3"	-43.6"
TRAJ: 75 yds. zero	-.8"	2.8"	3.2"	0.0	-7.1"	-18.3"	-34.0"
TRAJ: 100 yds. zero	-.8"	4.6"	6.7"	5.3"	0.0	-9.5"	-23.5"
TRAJ: 125 yds. zero	-.8"	6.5"	10.5"	11.0"	7.6"	0.0	-12.1"
TRAJ: 150 yds. zero	-.8"	8.5"	14.5"	17.0"	15.6"	10.1"	0.0
VELOCITY (fps)	800	768	738	709	682	656	632
ENERGY (ft.-lbs.)	284	262	242	223	207	191	177
TRAJ: 25 yds. zero	-.8"	0.0	-2.9"	-9.8"	-20.9"	-36.8"	-57.7"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.4"	-15.2"	-29.6"	-49.0"
TRAJ: 75 yds. zero	-.8"	3.3"	3.6"	0.0	-7.9"	-20.5"	-38.2"
TRAJ: 100 yds. zero	-.8"	5.2"	7.6"	6.0"	0.0	-10.6"	-26.3"
TRAJ: 125 yds. zero	-.8"	7.4"	11.8"	12.3"	8.5"	0.0	-13.5"
TRAJ: 150 yds. zero	-.8"	9.6"	16.3"	19.1"	17.5"	11.3"	0.0
VELOCITY (fps)	750	721	693	667	642	618	594
ENERGY (ft.-lbs.)	250	231	213	198	183	169	157
TRAJ: 25 yds. zero	-.8"	0.0	-3.4"	-11.3"	-24.1"	-42.1"	-65.9"
TRAJ: 50 yds. zero	-.8"	1.7"	0.0	-6.2"	-17.3"	-33.6"	-55.7"
TRAJ: 75 yds. zero	-.8"	3.8"	4.1"	0.0	-9.0"	-23.3"	-43.3"
TRAJ: 100 yds. zero	-.8"	6.0"	8.6"	6.8"	0.0	-12.0"	-29.8"
TRAJ: 125 yds. zero	-.8"	8.4"	13.5"	14.0"	9.6"	0.0	-15.3"
TRAJ: 150 yds. zero	-.8"	11.0"	18.6"	21.6"	19.8"	12.8"	0.0
VELOCITY (fps)	700	673	648	624	600	578	556
ENERGY (ft.-lbs.)	218	201	186	173	160	148	137
TRAJ: 25 yds. zero	-.8"	0.0	-4.0"	-13.2"	-27.9"	-48.7"	-76.0"
TRAJ: 50 yds. zero	-.8"	2.0"	0.0	-7.2"	-19.9"	-38.7"	-64.0"
TRAJ: 75 yds. zero	-.8"	4.4"	4.8"	0.0	-10.4"	-26.8"	-49.7"
TRAJ: 100 yds. zero	-.8"	7.0"	10.0"	7.8"	0.0	-13.8"	-34.1"
TRAJ: 125 yds. zero	-.8"	9.7"	15.5"	16.1"	11.0"	0.0	-17.6"
TRAJ: 150 yds. zero	-.8"	12.7"	21.3"	24.8"	22.8"	14.6"	0.0
VELOCITY (fps)	650	626	602	579	557	536	516
ENERGY (ft.-lbs.)	188	174	161	149	138	128	118
TRAJ: 25 yds. zero	-.8"	0.0	-4.8"	-15.5"	-32.7"	-56.9"	-88.7"
TRAJ: 50 yds. zero	-.8"	2.4"	0.0	-8.4"	-23.2"	-45.0"	-74.4"
TRAJ: 75 yds. zero	-.8"	5.2"	5.6"	0.0	-12.1"	-31.1"	-57.7"
TRAJ: 100 yds. zero	-.8"	8.2"	11.6"	9.0"	0.0	-16.0"	-39.6"
TRAJ: 125 yds. zero	-.8"	11.4"	18.0"	18.7"	12.8"	0.0	-20.4"
TRAJ: 150 yds. zero	-.8"	14.8"	24.8"	28.9"	26.4"	17.0"	0.0
VELOCITY (fps)	600	577	556	535	514	494	475
ENERGY (ft.-lbs.)	160	148	137	127	117	109	100
TRAJ: 25 yds. zero	-.8"	0.0	-5.7"	-18.5"	-38.8"	-67.4"	-104.9"
TRAJ: 50 yds. zero	-.8"	2.9"	0.0	-9.9"	-27.4"	-53.1"	-87.7"
TRAJ: 75 yds. zero	-.8"	6.2"	6.6"	0.0	-14.2"	-36.6"	-67.9"
TRAJ: 100 yds. zero	-.8"	9.7"	13.7"	10.6"	0.0	-18.9"	-46.6"
TRAJ: 125 yds. zero	-.8"	13.5"	21.2"	22.0"	15.1"	0.0	-24.0"
TRAJ: 150 yds. zero	-.8"	17.5"	29.2"	34.0"	31.1"	20.0"	0.0

45 CALIBER (.452" Dia.) 230 GRAIN LEAD ROUND NOSE
SECTIONAL DENSITY: .161 BALLISTIC COEFFICIENT: .207

RANGE	MUZZLE	25 yds.	50 yds.	75 yds.	100 yds.	125 yds.	150 yds.
VELOCITY (fps)	900	883	867	852	838	824	810
ENERGY (ft.-lbs.)	414	398	384	371	358	346	335
TRAJ: 25 yds. zero	-.8"	0.0	-2.0"	-6.8"	-14.7"	-25.7"	-39.8"
TRAJ: 50 yds. zero	-.8"	1.0"	0.0	-3.9"	-10.7"	-20.7"	-33.9"
TRAJ: 75 yds. zero	-.8"	2.3"	2.6"	0.0	-5.6"	-14.2"	-26.1"
TRAJ: 100 yds. zero	-.8"	3.7"	5.4"	4.2"	0.0	-7.3"	-17.7"
TRAJ: 125 yds. zero	-.8"	5.1"	8.3"	8.5"	5.8"	0.0	-9.0"
TRAJ: 150 yds. zero	-.8"	6.6"	11.3"	13.0"	11.8"	7.5"	0.0
VELOCITY (fps)	850	836	821	808	795	782	770
ENERGY (ft.-lbs.)	369	356	345	333	323	312	303
TRAJ: 25 yds. zero	-.8"	0.0	-2.3"	-7.8"	-16.7"	-29.0"	-44.8"
TRAJ: 50 yds. zero	-.8"	1.2"	0.0	-4.4"	-12.1"	-23.2"	-37.9"
TRAJ: 75 yds. zero	-.8"	2.6"	2.9"	0.0	-6.2"	-15.9"	-29.1"
TRAJ: 100 yds. zero	-.8"	4.2"	6.0"	4.7"	0.0	-8.1"	-19.8"
TRAJ: 125 yds. zero	-.8"	5.8"	9.3"	9.6"	6.5"	0.0	-10.0"
TRAJ: 150 yds. zero	-.8"	7.5"	12.6"	14.6"	13.2"	8.4"	0.0
VELOCITY (fps)	800	787	775	762	751	739	728
ENERGY (ft.-lbs.)	327	316	306	297	288	279	270
TRAJ: 25 yds. zero	-.8"	0.0	-2.7"	-9.0"	-19.1"	-33.0"	-50.9"
TRAJ: 50 yds. zero	-.8"	1.4"	0.0	-5.0"	-13.7"	-26.2"	-42.8"
TRAJ: 75 yds. zero	-.8"	3.0"	3.3"	0.0	-7.0"	-17.9"	-32.8"
TRAJ: 100 yds. zero	-.8"	4.8"	6.8"	5.3"	0.0	-9.1"	-22.3"
TRAJ: 125 yds. zero	-.8"	6.6"	10.5"	10.8"	7.3"	0.0	-11.3"
TRAJ: 150 yds. zero	-.8"	8.5"	14.3"	16.4"	14.9"	9.4"	0.0
VELOCITY (fps)	750	738	727	716	705	694	684
ENERGY (ft.-lbs.)	287	278	270	262	254	246	239
TRAJ: 25 yds. zero	-.8"	0.0	-3.2"	-10.5"	-22.0"	-37.9"	-58.3"
TRAJ: 50 yds. zero	-.8"	1.6"	0.0	-5.7"	-15.6"	-29.9"	-48.7"
TRAJ: 75 yds. zero	-.8"	3.5"	3.8"	0.0	-8.0"	-20.4"	-37.3"
TRAJ: 100 yds. zero	-.8"	5.5"	7.8"	6.0"	0.0	-10.4"	-25.3"
TRAJ: 125 yds. zero	-.8"	7.6"	12.0"	12.3"	8.3"	0.0	-12.8"
TRAJ: 150 yds. zero	-.8"	9.7"	16.2"	18.7"	16.9"	10.7"	0.0
VELOCITY (fps)	700	689	679	669	659	649	639
ENERGY (ft.-lbs.)	250	243	235	228	222	215	209
TRAJ: 25 yds. zero	-.8"	0.0	-3.8"	-12.2"	-25.6"	-43.9"	-67.4"
TRAJ: 50 yds. zero	-.8"	1.9"	0.0	-6.6"	-18.0"	-34.5"	-56.1"
TRAJ: 75 yds. zero	-.8"	4.1"	4.4"	0.0	-9.3"	-23.5"	-42.9"
TRAJ: 100 yds. zero	-.8"	6.4"	9.0"	6.9"	0.0	-11.9"	-29.0"
TRAJ: 125 yds. zero	-.8"	8.8"	13.8"	14.1"	9.5"	0.0	-14.7"
TRAJ: 150 yds. zero	-.8"	11.2"	18.7"	21.5"	19.4"	12.3"	0.0
VELOCITY (fps)	650	640	631	621	612	603	594
ENERGY (ft.-lbs.)	216	209	203	197	191	186	180
TRAJ: 25 yds. zero	-.8"	0.0	-4.5"	-14.4"	-30.0"	-51.4"	-78.8"
TRAJ: 50 yds. zero	-.8"	2.2"	0.0	-7.7"	-21.1"	-40.2"	-65.3"
TRAJ: 75 yds. zero	-.8"	4.8"	5.1"	0.0	-10.8"	-27.4"	-49.9"
TRAJ: 100 yds. zero	-.8"	7.5"	10.5"	8.1"	0.0	-13.9"	-33.7"
TRAJ: 125 yds. zero	-.8"	10.3"	16.1"	16.4"	11.1"	0.0	-17.1"
TRAJ: 150 yds. zero	-.8"	13.1"	21.8"	25.0"	22.5"	14.2"	0.0
VELOCITY (fps)	600	591	582	574	565	557	548
ENERGY (ft.-lbs.)	184	178	173	168	163	158	153
TRAJ: 25 yds. zero	-.8"	0.0	-5.4"	-17.3"	-35.7"	-60.9"	-93.1"
TRAJ: 50 yds. zero	-.8"	2.7"	0.0	-9.1"	-24.8"	-47.4"	-76.9"
TRAJ: 75 yds. zero	-.8"	5.8"	6.1"	0.0	-12.7"	-32.2"	-58.6"
TRAJ: 100 yds. zero	-.8"	8.9"	12.4"	9.5"	0.0	-16.3"	-39.6"
TRAJ: 125 yds. zero	-.8"	12.2"	18.9"	19.3"	13.0"	0.0	-20.0"
TRAJ: 150 yds. zero	-.8"	15.5"	25.6"	29.3"	26.4"	16.7"	0.0

TRAJECTORY TABLES (LONG RANGE PISTOL/SILHOUETTE)

22 CALIBER (.224" Dia.) 55 GRAIN SX OR SPIRE POINT
OR SPIRE POINT W/CANNELURE

SECTIONAL DENSITY: .157 BALLISTIC COEFFICIENT: .235

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2900	2684	2479	2282	2158	2094
ENERGY (ft.-lbs.)	1027	880	750	636	568	536
TRAJ: 50 m. zero	-.8"	0.0	-0.6"	-3.0"	-5.6"	-7.3"
TRAJ: 100 m. zero	-.8"	0.3"	0.0	-2.0"	-4.4"	-6.0"
TRAJ: 150 m. zero	-.8"	1.0"	1.3"	0.0	-2.0"	-3.3"
TRAJ: 200 yds. zero	-.8"	1.5"	2.4"	1.6"	0.0	-1.2"
TRAJ: 200 m. zero	-.8"	1.8"	3.0"	2.5"	1.1"	0.0
VELOCITY (fps)	2800	2589	2388	2195	2073	2012
ENERGY (ft.-lbs.)	957	818	696	588	525	494
TRAJ: 50 m. zero	-.8"	0.0	-0.8"	-3.3"	-6.2"	-8.1"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.2"	-4.8"	-6.6"
TRAJ: 150 m. zero	-.8"	1.1"	1.5"	0.0	-2.1"	-3.6"
TRAJ: 200 yds. zero	-.8"	1.7"	2.6"	1.7"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.0"	3.3"	2.7"	1.2"	0.0
VELOCITY (fps)	2700	2494	2296	2108	1989	1929
ENERGY (ft.-lbs.)	890	759	644	543	483	454
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.7"	-6.8"	-8.9"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.4"	-5.2"	-7.2"
TRAJ: 150 m. zero	-.8"	1.2"	1.6"	0.0	-2.3"	-4.0"
TRAJ: 200 yds. zero	-.8"	1.9"	2.9"	1.9"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.2"	3.6"	3.0"	1.3"	0.0
VELOCITY (fps)	2600	2398	2205	2021	1905	1847
ENERGY (ft.-lbs.)	825	702	594	499	443	416
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.2"	-7.6"	-9.9"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.6"	-5.7"	-7.8"
TRAJ: 150 m. zero	-.8"	1.4"	1.8"	0.0	-2.5"	-4.3"
TRAJ: 200 yds. zero	-.8"	2.1"	3.1"	2.1"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.5"	3.9"	3.2"	1.4"	0.0
VELOCITY (fps)	2500	2303	2114	1935	1822	1765
ENERGY (ft.-lbs.)	763	647	546	457	405	380
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.7"	-8.4"	-10.9"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.9"	-6.3"	-8.6"
TRAJ: 150 m. zero	-.8"	1.6"	1.9"	0.0	-2.8"	-4.7"
TRAJ: 200 yds. zero	-.8"	2.3"	3.5"	2.3"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	2.7"	4.3"	3.5"	1.6"	0.0
VELOCITY (fps)	2400	2207	2023	1848	1739	1684
ENERGY (ft.-lbs.)	703	595	500	417	369	346
TRAJ: 50 m. zero	-.8"	0.0	-1.3"	-5.2"	-9.4"	-12.2"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.2"	-7.0"	-9.5"
TRAJ: 150 m. zero	-.8"	1.7"	2.1"	0.0	-3.0"	-5.2"
TRAJ: 200 yds. zero	-.8"	2.6"	3.8"	2.5"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.0"	4.7"	3.9"	1.7"	0.0
VELOCITY (fps)	2300	2112	1932	1763	1658	1605
ENERGY (ft.-lbs.)	646	544	456	379	336	314
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.9"	-10.5"	-13.5"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.6"	-7.7"	-10.5"
TRAJ: 150 m. zero	-.8"	2.0"	2.4"	0.0	-3.3"	-5.7"
TRAJ: 200 yds. zero	-.8"	2.9"	4.2"	2.7"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.4"	5.2"	4.3"	1.9"	0.0
VELOCITY (fps)	2200	2016	1842	1678	1577	1527
ENERGY (ft.-lbs.)	591	496	414	344	304	285
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.6"	-11.7"	-15.1"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-4.0"	-8.5"	-11.6"
TRAJ: 150 m. zero	-.8"	2.2"	2.6"	0.0	-3.7"	-6.3"
TRAJ: 200 yds. zero	-.8"	3.2"	4.7"	3.0"	0.0	-2.3"
TRAJ: 200 m. zero	-.8"	3.8"	5.8"	4.8"	2.1"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2100	1921	1753	1595	1499	1451
ENERGY (ft.-lbs.)	538	451	375	311	274	257
TRAJ: 50 m. zero	-.8"	0.0	-2.0"	-7.4"	-13.2"	-16.9"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.4"	-9.5"	-12.9"
TRAJ: 150 m. zero	-.8"	2.5"	2.9"	0.0	-4.1"	-7.0"
TRAJ: 200 yds. zero	-.8"	3.6"	5.2"	3.4"	0.0	-2.5"
TRAJ: 200 m. zero	-.8"	4.2"	6.5"	5.3"	2.3"	0.0
VELOCITY (fps)	2000	1827	1664	1514	1423	1378
ENERGY (ft.-lbs.)	488	407	338	280	247	232
TRAJ: 50 m. zero	-.8"	0.0	-2.3"	-8.4"	-14.8"	-19.0"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.9"	-10.6"	-14.4"
TRAJ: 150 m. zero	-.8"	2.8"	3.3"	0.0	-4.6"	-7.8"
TRAJ: 200 yds. zero	-.8"	4.1"	5.8"	3.8"	0.0	-2.8"
TRAJ: 200 m. zero	-.8"	4.8"	7.2"	5.9"	2.6"	0.0
VELOCITY (fps)	1900	1733	1577	1435	1350	1308
ENERGY (ft.-lbs.)	441	367	304	251	222	209
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.5"	-16.7"	-21.5"
TRAJ: 100 m. zero	-.8"	1.3"	0.0	-5.5"	-11.9"	-16.1"
TRAJ: 150 m. zero	-.8"	3.2"	3.7"	0.0	-5.1"	-8.7"
TRAJ: 200 yds. zero	-.8"	4.6"	6.5"	4.2"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.4"	8.1"	6.6"	2.9"	0.0
VELOCITY (fps)	1800	1639	1491	1358	1280	1243
ENERGY (ft.-lbs.)	396	328	272	225	200	189
TRAJ: 50 m. zero	-.8"	0.0	-3.1"	-10.8"	-19.0"	-24.3"
TRAJ: 100 m. zero	-.8"	1.5"	0.0	-6.2"	-13.3"	-18.1"
TRAJ: 150 m. zero	-.8"	3.6"	4.1"	0.0	-5.7"	-9.8"
TRAJ: 200 yds. zero	-.8"	5.2"	7.3"	4.7"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	6.1"	9.0"	7.4"	3.2"	0.0

22 CALIBER (.224" Dia.) 60 GRAIN SPIRE POINT
SECTIONAL DENSITY: .171 BALLISTIC COEFFICIENT: .264

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2700	2516	2339	2169	2061	2007
ENERGY (ft.-lbs.)	971	843	729	627	566	536
TRAJ: 50 m. zero	-.8"	0.0	-0.8"	-3.6"	-6.6"	-8.6"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.3"	-5.0"	-6.9"
TRAJ: 150 m. zero	-.8"	1.2"	1.5"	0.0	-2.2"	-3.8"
TRAJ: 200 yds. zero	-.8"	1.8"	2.8"	1.8"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.1"	3.4"	2.8"	1.2"	0.0
VELOCITY (fps)	2600	2420	2247	2081	1976	1922
ENERGY (ft.-lbs.)	900	780	672	577	520	492
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.0"	-7.3"	-9.5"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.6"	-5.5"	-7.5"
TRAJ: 150 m. zero	-.8"	1.3"	1.7"	0.0	-2.4"	-4.1"
TRAJ: 200 yds. zero	-.8"	2.0"	3.0"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.4"	3.8"	3.1"	1.3"	0.0
VELOCITY (fps)	2500	2324	2155	1993	1890	1838
ENERGY (ft.-lbs.)	833	719	618	529	476	450
TRAJ: 50 m. zero	-.8"	0.0	-1.1"	-4.5"	-8.1"	-10.5"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-6.1"	-8.2"
TRAJ: 150 m. zero	-.8"	1.5"	1.9"	0.0	-2.6"	-4.5"
TRAJ: 200 yds. zero	-.8"	2.2"	3.3"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.6"	4.1"	3.4"	1.5"	0.0
VELOCITY (fps)	2400	2228	2063	1905	1805	1755
ENERGY (ft.-lbs.)	767	661	567	483	434	410
TRAJ: 50 m. zero	-.8"	0.0	-1.3"	-5.0"	-9.0"	-11.7"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-3.1"	-6.7"	-9.1"
TRAJ: 150 m. zero	-.8"	1.7"	2.1"	0.0	-2.9"	-4.9"
TRAJ: 200 yds. zero	-.8"	2.5"	3.6"	2.4"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	2.9"	4.5"	3.7"	1.6"	0.0
VELOCITY (fps)	2300	2132	1971	1818	1721	1673
ENERGY (ft.-lbs.)	705	605	517	440	395	373
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.7"	-10.1"	-13.0"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.4"	-7.4"	-10.0"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.2"	-5.4"
TRAJ: 200 yds. zero	-.8"	2.8"	4.0"	2.6"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.2"	5.0"	4.1"	1.8"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2200	2036	1879	1731	1638	1592
ENERGY (ft.-lbs.)	645	552	471	399	358	338
TRAJ: 50 m. zero	-.8"	0.0	-1.7"	-6.4"	-11.3"	-14.5"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.8"	-8.2"	-11.1"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.5"	-6.0"
TRAJ: 200 yds. zero	-.8"	3.1"	4.5"	2.9"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	3.6"	5.5"	4.5"	2.0"	0.0
VELOCITY (fps)	2100	1940	1789	1646	1557	1513
ENERGY (ft.-lbs.)	587	502	426	361	323	305
TRAJ: 50 m. zero	-.8"	0.0	-2.0"	-7.2"	-12.7"	-16.3"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.2"	-9.1"	-12.3"
TRAJ: 150 m. zero	-.8"	2.4"	2.8"	0.0	-3.9"	-6.7"
TRAJ: 200 yds. zero	-.8"	3.5"	5.0"	3.2"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.1"	6.2"	5.0"	2.2"	0.0
VELOCITY (fps)	2000	1845	1699	1562	1478	1436
ENERGY (ft.-lbs.)	533	454	384	325	291	275
TRAJ: 50 m. zero	-.8"	0.0	-2.3"	-8.1"	-14.3"	-18.3"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.7"	-10.1"	-13.7"
TRAJ: 150 m. zero	-.8"	2.7"	3.2"	0.0	-4.4"	-7.4"
TRAJ: 200 yds. zero	-.8"	3.9"	5.5"	3.6"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	4.6"	6.9"	5.6"	2.4"	0.0

22 CALIBER (.224" Dia.) 60 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .171 BALLISTIC COEFFICIENT: .271

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2700	2520	2348	2182	2077	2023
ENERGY (ft.-lbs.)	971	846	734	634	574	545
TRAJ: 50 m. zero	-.8"	0.0	-0.8"	-3.6"	-6.5"	-8.5"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.3"	-5.0"	-6.8"
TRAJ: 150 m. zero	-.8"	1.2"	1.5"	0.0	-2.2"	-3.7"
TRAJ: 200 yds. zero	-.8"	1.8"	2.7"	1.8"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.1"	3.4"	2.8"	1.2"	0.0
VELOCITY (fps)	2600	2424	2256	2093	1991	1938
ENERGY (ft.-lbs.)	900	783	678	584	528	500
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.0"	-7.2"	-9.4"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.5"	-5.5"	-7.4"
TRAJ: 150 m. zero	-.8"	1.3"	1.7"	0.0	-2.4"	-4.1"
TRAJ: 200 yds. zero	-.8"	2.0"	3.0"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.3"	3.7"	3.0"	1.3"	0.0
VELOCITY (fps)	2500	2328	2163	2005	1905	1854
ENERGY (ft.-lbs.)	833	722	623	535	483	458
TRAJ: 50 m. zero	-.8"	0.0	-1.1"	-4.5"	-8.0"	-10.4"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-6.0"	-8.2"
TRAJ: 150 m. zero	-.8"	1.5"	1.9"	0.0	-2.6"	-4.4"
TRAJ: 200 yds. zero	-.8"	2.2"	3.3"	2.1"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.6"	4.1"	3.3"	1.5"	0.0
VELOCITY (fps)	2400	2232	2071	1917	1819	1770
ENERGY (ft.-lbs.)	767	664	571	489	441	417
TRAJ: 50 m. zero	-.8"	0.0	-1.3"	-5.0"	-9.0"	-11.6"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-3.1"	-6.6"	-9.0"
TRAJ: 150 m. zero	-.8"	1.7"	2.0"	0.0	-2.9"	-4.9"
TRAJ: 200 yds. zero	-.8"	2.5"	3.6"	2.3"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	2.9"	4.5"	3.7"	1.6"	0.0
VELOCITY (fps)	2300	2136	1979	1829	1735	1687
ENERGY (ft.-lbs.)	705	608	522	446	401	379
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.6"	-10.0"	-12.9"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.4"	-7.3"	-9.9"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.2"	-5.4"
TRAJ: 200 yds. zero	-.8"	2.7"	4.0"	2.6"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.2"	5.0"	4.0"	1.8"	0.0
VELOCITY (fps)	2200	2040	1887	1742	1652	1606
ENERGY (ft.-lbs.)	645	554	475	404	363	344
TRAJ: 50 m. zero	-.8"	0.0	-1.7"	-6.3"	-11.2"	-14.4"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.8"	-8.1"	-11.0"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.5"	-5.9"
TRAJ: 200 yds. zero	-.8"	3.1"	4.4"	2.9"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.6"	5.5"	4.5"	1.9"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2100	1944	1796	1657	1570	1526
ENERGY (ft.-lbs.)	587	504	430	366	328	310
TRAJ: 50 m. zero	-.8"	0.0	-2.0"	-7.1"	-12.6"	-16.1"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.2"	-9.0"	-12.2"
TRAJ: 150 m. zero	-.8"	2.4"	2.8"	0.0	-3.9"	-6.6"
TRAJ: 200 yds. zero	-.8"	3.4"	4.9"	3.2"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.0"	6.1"	4.9"	2.2"	0.0
VELOCITY (fps)	2000	1849	1706	1572	1490	1448
ENERGY (ft.-lbs.)	533	455	388	329	296	279
TRAJ: 50 m. zero	-.8"	0.0	-2.2"	-8.1"	-14.1"	-18.1"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.7"	-10.0"	-13.6"
TRAJ: 150 m. zero	-.8"	2.7"	3.1"	0.0	-4.3"	-7.3"
TRAJ: 200 yds. zero	-.8"	3.9"	5.5"	3.5"	0.0	-2.6"
TRAJ: 200 m. zero	-.8"	4.5"	6.8"	5.5"	2.4"	0.0

6MM CALIBER (.243" Dia.) 100 GRAIN SPIRE POINT
SECTIONAL DENSITY: .242 BALLISTIC COEFFICIENT: .381

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2700	2572	2447	2325	2247	2207
ENERGY (ft.-lbs.)	1618	1468	1329	1200	1121	1082
TRAJ: 50 m. zero	-.8"	0.0	-0.8"	-3.3"	-6.0"	-7.7"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.1"	-4.6"	-6.2"
TRAJ: 150 m. zero	-.8"	1.1"	1.4"	0.0	-2.0"	-3.3"
TRAJ: 200 yds. zero	-.8"	1.6"	2.5"	1.6"	0.0	-1.2"
TRAJ: 200 m. zero	-.8"	1.9"	3.1"	2.5"	1.1"	0.0
VELOCITY (fps)	2600	2474	2352	2233	2157	2118
ENERGY (ft.-lbs.)	1501	1359	1228	1107	1033	996
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.7"	-6.6"	-8.5"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.3"	-5.0"	-6.7"
TRAJ: 150 m. zero	-.8"	1.2"	1.6"	0.0	-2.1"	-3.6"
TRAJ: 200 yds. zero	-.8"	1.8"	2.7"	1.8"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.1"	3.4"	2.7"	1.2"	0.0
VELOCITY (fps)	2500	2377	2258	2142	2067	2029
ENERGY (ft.-lbs.)	1388	1255	1132	1018	949	914
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.1"	-7.4"	-9.5"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.6"	-5.5"	-7.4"
TRAJ: 150 m. zero	-.8"	1.4"	1.7"	0.0	-2.3"	-4.0"
TRAJ: 200 yds. zero	-.8"	2.0"	3.0"	1.9"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.4"	3.7"	3.0"	1.3"	0.0
VELOCITY (fps)	2400	2280	2163	2050	1977	1940
ENERGY (ft.-lbs.)	1279	1154	1039	933	868	836
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.6"	-8.2"	-10.5"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-6.0"	-8.1"
TRAJ: 150 m. zero	-.8"	1.5"	1.9"	0.0	-2.6"	-4.4"
TRAJ: 200 yds. zero	-.8"	2.2"	3.3"	2.1"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.6"	4.1"	3.3"	1.4"	0.0
VELOCITY (fps)	2300	2183	2069	1958	1888	1852
ENERGY (ft.-lbs.)	1174	1058	950	852	791	761
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.2"	-9.2"	-11.7"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.1"	-6.6"	-9.0"
TRAJ: 150 m. zero	-.8"	1.7"	2.1"	0.0	-2.8"	-4.8"
TRAJ: 200 yds. zero	-.8"	2.5"	3.6"	2.3"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	2.9"	4.5"	3.6"	1.6"	0.0
VELOCITY (fps)	2200	2086	1975	1868	1799	1764
ENERGY (ft.-lbs.)	1075	966	866	774	719	691
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.8"	-10.3"	-13.1"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.5"	-7.3"	-9.9"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.1"	-5.3"
TRAJ: 200 yds. zero	-.8"	2.8"	4.0"	2.6"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.3"	5.0"	4.0"	1.7"	0.0
VELOCITY (fps)	2100	1989	1881	1777	1711	1678
ENERGY (ft.-lbs.)	979	878	785	701	650	625
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.6"	-11.5"	-14.7"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.9"	-8.2"	-11.0"
TRAJ: 150 m. zero	-.8"	2.2"	2.6"	0.0	-3.5"	-5.9"
TRAJ: 200 yds. zero	-.8"	3.1"	4.5"	2.8"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.7"	5.5"	4.4"	1.9"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2000	1892	1788	1688	1624	1592
ENERGY (ft.-lbs.)	888	795	710	632	586	563
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.5"	-13.0"	-16.5"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.3"	-9.1"	-12.3"
TRAJ: 150 m. zero	-.8"	2.5"	2.9"	0.0	-3.9"	-6.5"
TRAJ: 200 yds. zero	-.8"	3.5"	5.0"	3.2"	0.0	-2.3"
TRAJ: 200 m. zero	-.8"	4.1"	6.1"	4.9"	2.1"	0.0

6MM CALIBER (.243" Dia.) 100 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .242 BALLISTIC COEFFICIENT: .405

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2700	2579	2461	2347	2273	2235
ENERGY (ft.-lbs.)	1618	1477	1345	1223	1147	1109
TRAJ: 50 m. zero	-.8"	0.0	-0.8"	-3.2"	-5.9"	-7.6"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.1"	-4.5"	-6.1"
TRAJ: 150 m. zero	-.8"	1.1"	1.4"	0.0	-1.9"	-3.3"
TRAJ: 200 yds. zero	-.8"	1.6"	2.5"	1.6"	0.0	-1.2"
TRAJ: 200 m. zero	-.8"	1.9"	3.0"	2.5"	1.1"	0.0
VELOCITY (fps)	2600	2482	2367	2254	2182	2145
ENERGY (ft.-lbs.)	1501	1367	1243	1128	1057	1022
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.6"	-6.5"	-8.4"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.3"	-4.9"	-6.6"
TRAJ: 150 m. zero	-.8"	1.2"	1.5"	0.0	-2.1"	-3.6"
TRAJ: 200 yds. zero	-.8"	1.8"	2.7"	1.7"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.1"	3.3"	2.7"	1.2"	0.0
VELOCITY (fps)	2500	2384	2272	2162	2092	2055
ENERGY (ft.-lbs.)	1388	1262	1146	1038	971	938
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.1"	-7.3"	-9.3"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.5"	-5.4"	-7.3"
TRAJ: 150 m. zero	-.8"	1.4"	1.7"	0.0	-2.3"	-3.9"
TRAJ: 200 yds. zero	-.8"	2.0"	2.9"	1.9"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.3"	3.6"	2.9"	1.3"	0.0
VELOCITY (fps)	2400	2287	2177	2070	2001	1966
ENERGY (ft.-lbs.)	1279	1161	1052	951	889	858
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.6"	-8.1"	-10.4"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-5.9"	-8.0"
TRAJ: 150 m. zero	-.8"	1.5"	1.9"	0.0	-2.5"	-4.3"
TRAJ: 200 yds. zero	-.8"	2.2"	3.2"	2.1"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.6"	4.0"	3.2"	1.4"	0.0
VELOCITY (fps)	2300	2190	2082	1978	1911	1877
ENERGY (ft.-lbs.)	1174	1064	962	868	811	782
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.1"	-9.0"	-11.6"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.1"	-6.5"	-8.8"
TRAJ: 150 m. zero	-.8"	1.7"	2.1"	0.0	-2.8"	-4.7"
TRAJ: 200 yds. zero	-.8"	2.5"	3.6"	2.3"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	2.9"	4.4"	3.5"	1.5"	0.0
VELOCITY (fps)	2200	2092	1988	1886	1821	1788
ENERGY (ft.-lbs.)	1075	972	877	790	737	710
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.8"	-10.1"	-12.9"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.4"	-7.2"	-9.8"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.1"	-5.2"
TRAJ: 200 yds. zero	-.8"	2.8"	4.0"	2.5"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.2"	4.9"	3.9"	1.7"	0.0
VELOCITY (fps)	2100	1995	1894	1795	1733	1701
ENERGY (ft.-lbs.)	979	884	796	716	667	642
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.5"	-11.4"	-14.5"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.8"	-8.0"	-10.8"
TRAJ: 150 m. zero	-.8"	2.2"	2.5"	0.0	-3.4"	-5.8"
TRAJ: 200 yds. zero	-.8"	3.1"	4.4"	2.8"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.6"	5.4"	4.3"	1.9"	0.0
VELOCITY (fps)	2000	1898	1800	1705	1645	1614
ENERGY (ft.-lbs.)	888	800	719	646	601	579
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.4"	-12.8"	-16.3"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.3"	-9.0"	-12.1"
TRAJ: 150 m. zero	-.8"	2.5"	2.8"	0.0	-3.8"	-6.4"
TRAJ: 200 yds. zero	-.8"	3.5"	4.9"	3.1"	0.0	-2.3"
TRAJ: 200 m. zero	-.8"	4.1"	6.0"	4.8"	2.1"	0.0

25 CALIBER (.257" Dia.) 117 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .253 BALLISTIC COEFFICIENT: .376

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2800	2667	2538	2412	2332	2290
ENERGY (ft.-lbs.)	2036	1847	1673	1511	1412	1362
TRAJ: 50 m. zero	-.8"	0.0	-0.7"	-2.9"	-5.4"	-7.0"
TRAJ: 100 m. zero	-.8"	0.3"	0.0	-1.9"	-4.2"	-5.7"
TRAJ: 150 m. zero	-.8"	1.0"	1.3"	0.0	-1.8"	-3.1"
TRAJ: 200 yds. zero	-.8"	1.5"	2.3"	1.5"	0.0	-1.1"
TRAJ: 200 m. zero	-.8"	1.7"	2.8"	2.3"	1.0"	0.0
VELOCITY (fps)	2700	2570	2443	2321	2242	2201
ENERGY (ft.-lbs.)	1894	1715	1551	1399	1305	1259
TRAJ: 50 m. zero	-.8"	0.0	-0.8"	-3.3"	-6.0"	-7.7"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.1"	-4.6"	-6.2"
TRAJ: 150 m. zero	-.8"	1.1"	1.4"	0.0	-2.0"	-3.3"
TRAJ: 200 yds. zero	-.8"	1.6"	2.5"	1.6"	0.0	-1.2"
TRAJ: 200 m. zero	-.8"	1.9"	3.1"	2.5"	1.1"	0.0
VELOCITY (fps)	2600	2473	2349	2229	2152	2112
ENERGY (ft.-lbs.)	1756	1588	1433	1290	1203	1159
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.7"	-6.6"	-8.6"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.3"	-5.0"	-6.8"
TRAJ: 150 m. zero	-.8"	1.2"	1.6"	0.0	-2.1"	-3.6"
TRAJ: 200 yds. zero	-.8"	1.8"	2.7"	1.8"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.1"	3.4"	2.7"	1.2"	0.0
VELOCITY (fps)	2500	2376	2255	2137	2062	2023
ENERGY (ft.-lbs.)	1623	1466	1320	1186	1104	1063
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.1"	-7.4"	-9.5"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.6"	-5.5"	-7.4"
TRAJ: 150 m. zero	-.8"	1.4"	1.7"	0.0	-2.4"	-4.0"
TRAJ: 200 yds. zero	-.8"	2.0"	3.0"	1.9"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.4"	3.7"	3.0"	1.3"	0.0
VELOCITY (fps)	2400	2278	2160	2045	1972	1934
ENERGY (ft.-lbs.)	1496	1348	1212	1087	1010	972
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.6"	-8.2"	-10.6"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-6.0"	-8.1"
TRAJ: 150 m. zero	-.8"	1.5"	1.9"	0.0	-2.6"	-4.4"
TRAJ: 200 yds. zero	-.8"	2.2"	3.3"	2.1"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.6"	4.1"	3.3"	1.4"	0.0
VELOCITY (fps)	2300	2181	2066	1954	1883	1846
ENERGY (ft.-lbs.)	1374	1236	1109	992	921	885
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.2"	-9.2"	-11.8"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.1"	-6.7"	-9.0"
TRAJ: 150 m. zero	-.8"	1.7"	2.1"	0.0	-2.8"	-4.8"
TRAJ: 200 yds. zero	-.8"	2.5"	3.6"	2.3"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	2.9"	4.5"	3.6"	1.6"	0.0
VELOCITY (fps)	2200	2084	1972	1863	1794	1759
ENERGY (ft.-lbs.)	1257	1128	1010	902	836	804
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.9"	-10.3"	-13.1"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.5"	-7.4"	-9.9"
TRAJ: 150 m. zero	-.8"	2.0"	2.3"	0.0	-3.1"	-5.3"
TRAJ: 200 yds. zero	-.8"	2.8"	4.0"	2.6"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.3"	5.0"	4.0"	1.7"	0.0
VELOCITY (fps)	2100	1987	1878	1773	1706	1672
ENERGY (ft.-lbs.)	1145	1026	916	817	756	727
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.6"	-11.5"	-14.7"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.9"	-8.2"	-11.0"
TRAJ: 150 m. zero	-.8"	2.2"	2.6"	0.0	-3.5"	-5.9"
TRAJ: 200 yds. zero	-.8"	3.2"	4.5"	2.8"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.7"	5.5"	4.4"	1.9"	0.0
VELOCITY (fps)	2000	1891	1785	1684	1620	1587
ENERGY (ft.-lbs.)	1039	928	828	736	682	654
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.5"	-13.0"	-16.5"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.3"	-9.1"	-12.3"
TRAJ: 150 m. zero	-.8"	2.5"	2.9"	0.0	-3.9"	-6.5"
TRAJ: 200 yds. zero	-.8"	3.6"	5.0"	3.2"	0.0	-2.3"
TRAJ: 200 m. zero	-.8"	4.1"	6.2"	4.9"	2.1"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1900	1794	1693	1596	1535	1504
ENERGY (ft.-lbs.)	938	836	744	661	612	587
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.5"	-14.7"	-18.6"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.8"	-10.2"	-13.8"
TRAJ: 150 m. zero	-.8"	2.8"	3.2"	0.0	-4.3"	-7.3"
TRAJ: 200 yds. zero	-.8"	4.0"	5.6"	3.5"	0.0	-2.6"
TRAJ: 200 m. zero	-.8"	4.7"	6.9"	5.5"	2.4"	0.0

25 CALIBER (.257" Dia.) 120 GRAIN HOLLOW POINT

SECTIONAL DENSITY: .260 BALLISTIC COEFFICIENT: .394

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2800	2673	2549	2429	2352	2312
ENERGY (ft.-lbs.)	2089	1903	1732	1572	1474	1424
TRAJ: 50 m. zero	-.8"	0.0	-0.7"	-2.9"	-5.3"	-6.9"
TRAJ: 100 m. zero	-.8"	0.3"	0.0	-1.9"	-4.1"	-5.6"
TRAJ: 150 m. zero	-.8"	1.0"	1.3"	0.0	-1.8"	-3.0"
TRAJ: 200 yds. zero	-.8"	1.5"	2.3"	1.5"	0.0	-1.1"
TRAJ: 200 m. zero	-.8"	1.7"	2.8"	2.3"	1.0"	0.0
VELOCITY (fps)	2700	2576	2455	2337	2262	2223
ENERGY (ft.-lbs.)	1942	1767	1605	1455	1363	1316
TRAJ: 50 m. zero	-.8"	0.0	-0.8"	-3.3"	-5.9"	-7.7"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.1"	-4.5"	-6.1"
TRAJ: 150 m. zero	-.8"	1.1"	1.4"	0.0	-1.9"	-3.3"
TRAJ: 200 yds. zero	-.8"	1.6"	2.5"	1.6"	0.0	-1.2"
TRAJ: 200 m. zero	-.8"	1.9"	3.1"	2.5"	1.1"	0.0
VELOCITY (fps)	2600	2478	2360	2245	2171	2133
ENERGY (ft.-lbs.)	1801	1636	1484	1343	1256	1212
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.7"	-6.6"	-8.5"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.3"	-4.9"	-6.7"
TRAJ: 150 m. zero	-.8"	1.2"	1.5"	0.0	-2.1"	-3.6"
TRAJ: 200 yds. zero	-.8"	1.8"	2.7"	1.7"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.1"	3.3"	2.7"	1.2"	0.0
VELOCITY (fps)	2500	2381	2265	2153	2081	2044
ENERGY (ft.-lbs.)	1665	1510	1367	1235	1153	1113
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.1"	-7.3"	-9.4"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.5"	-5.4"	-7.3"
TRAJ: 150 m. zero	-.8"	1.4"	1.7"	0.0	-2.3"	-3.9"
TRAJ: 200 yds. zero	-.8"	2.0"	3.0"	1.9"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.3"	3.7"	3.0"	1.3"	0.0
VELOCITY (fps)	2400	2284	2171	2061	1991	1954
ENERGY (ft.-lbs.)	1535	1390	1255	1132	1056	1018
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.6"	-8.1"	-10.4"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-6.0"	-8.1"
TRAJ: 150 m. zero	-.8"	1.5"	1.9"	0.0	-2.5"	-4.3"
TRAJ: 200 yds. zero	-.8"	2.2"	3.3"	2.1"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.6"	4.0"	3.2"	1.4"	0.0
VELOCITY (fps)	2300	2187	2076	1969	1901	1866
ENERGY (ft.-lbs.)	1409	1274	1148	1033	962	927
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.2"	-9.1"	-11.6"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.1"	-6.6"	-8.9"
TRAJ: 150 m. zero	-.8"	1.7"	2.1"	0.0	-2.8"	-4.7"
TRAJ: 200 yds. zero	-.8"	2.5"	3.6"	2.3"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	2.9"	4.4"	3.6"	1.5"	0.0
VELOCITY (fps)	2200	2089	1982	1878	1812	1778
ENERGY (ft.-lbs.)	1289	1163	1046	940	874	842
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.8"	-10.2"	-13.0"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.4"	-7.3"	-9.8"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.1"	-5.2"
TRAJ: 200 yds. zero	-.8"	2.8"	4.0"	2.5"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.2"	4.9"	3.9"	1.7"	0.0
VELOCITY (fps)	2100	1992	1888	1787	1723	1691
ENERGY (ft.-lbs.)	1175	1057	950	851	791	761
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.6"	-11.4"	-14.5"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.8"	-8.1"	-10.9"
TRAJ: 150 m. zero	-.8"	2.2"	2.6"	0.0	-3.4"	-5.8"
TRAJ: 200 yds. zero	-.8"	3.1"	4.4"	2.8"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.6"	5.5"	4.4"	1.9"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2000	1895	1794	1697	1636	1605
ENERGY (ft.-lbs.)	1066	957	858	768	713	686
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.4"	-12.9"	-16.3"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.3"	-9.0"	-12.2"
TRAJ: 150 m. zero	-.8"	2.5"	2.9"	0.0	-3.8"	-6.5"
TRAJ: 200 yds. zero	-.8"	3.5"	4.9"	3.1"	0.0	-2.3"
TRAJ: 200 m. zero	-.8"	4.1"	6.1"	4.8"	2.1"	0.0
VELOCITY (fps)	1900	1799	1702	1609	1550	1520
ENERGY (ft.-lbs.)	962	862	771	689	640	616
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.4"	-14.5"	-18.4"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.8"	-10.1"	-13.6"
TRAJ: 150 m. zero	-.8"	2.8"	3.2"	0.0	-4.3"	-7.2"
TRAJ: 200 yds. zero	-.8"	4.0"	5.5"	3.5"	0.0	-2.6"
TRAJ: 200 m. zero	-.8"	4.6"	6.8"	5.4"	2.3"	0.0

6.5MM CALIBER (.264" Dia.) 129 GRAIN SPIRE POINT
SECTIONAL DENSITY: .264 BALLISTIC COEFFICIENT: .445

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2800	2687	2577	2470	2401	2365
ENERGY (ft.-lbs.)	2245	2068	1903	1747	1651	1602
TRAJ: 50 m. zero	-.8"	0.0	-0.6"	-2.8"	-5.2"	-6.7"
TRAJ: 100 m. zero	-.8"	0.3"	0.0	-1.9"	-4.0"	-5.5"
TRAJ: 150 m. zero	-.8"	0.9"	1.3"	0.0	-1.7"	-3.0"
TRAJ: 200 yds. zero	-.8"	1.4"	2.2"	1.4"	0.0	-1.1"
TRAJ: 200 m. zero	-.8"	1.7"	2.7"	2.2"	1.0"	0.0
VELOCITY (fps)	2700	2590	2482	2377	2310	2275
ENERGY (ft.-lbs.)	2088	1921	1765	1619	1528	1482
TRAJ: 50 m. zero	-.8"	0.0	-0.7"	-3.2"	-5.8"	-7.5"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.1"	-4.4"	-6.0"
TRAJ: 150 m. zero	-.8"	1.1"	1.4"	0.0	-1.9"	-3.2"
TRAJ: 200 yds. zero	-.8"	1.6"	2.4"	1.6"	0.0	-1.1"
TRAJ: 200 m. zero	-.8"	1.9"	3.0"	2.4"	1.0"	0.0
VELOCITY (fps)	2600	2492	2387	2284	2218	2184
ENERGY (ft.-lbs.)	1936	1779	1632	1494	1409	1366
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.6"	-6.4"	-8.3"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.3"	-4.8"	-6.5"
TRAJ: 150 m. zero	-.8"	1.2"	1.5"	0.0	-2.1"	-3.5"
TRAJ: 200 yds. zero	-.8"	1.8"	2.6"	1.7"	0.0	-1.2"
TRAJ: 200 m. zero	-.8"	2.1"	3.3"	2.6"	1.1"	0.0
VELOCITY (fps)	2500	2395	2292	2191	2127	2093
ENERGY (ft.-lbs.)	1790	1642	1504	1375	1295	1255
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.0"	-7.1"	-9.2"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.5"	-5.3"	-7.1"
TRAJ: 150 m. zero	-.8"	1.3"	1.7"	0.0	-2.3"	-3.8"
TRAJ: 200 yds. zero	-.8"	2.0"	2.9"	1.9"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.3"	3.6"	2.9"	1.2"	0.0
VELOCITY (fps)	2400	2297	2196	2098	2035	2003
ENERGY (ft.-lbs.)	1650	1511	1382	1261	1186	1149
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.5"	-8.0"	-10.2"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.7"	-5.8"	-7.8"
TRAJ: 150 m. zero	-.8"	1.5"	1.8"	0.0	-2.5"	-4.2"
TRAJ: 200 yds. zero	-.8"	2.2"	3.2"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.5"	3.9"	3.1"	1.4"	0.0
VELOCITY (fps)	2300	2199	2101	2006	1944	1913
ENERGY (ft.-lbs.)	1515	1385	1264	1152	1083	1048
TRAJ: 50 m. zero	-.8"	0.0	-1.3"	-5.1"	-8.9"	-11.3"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.0"	-6.4"	-8.6"
TRAJ: 150 m. zero	-.8"	1.7"	2.0"	0.0	-2.7"	-4.6"
TRAJ: 200 yds. zero	-.8"	2.4"	3.5"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.8"	4.3"	3.5"	1.5"	0.0
VELOCITY (fps)	2200	2102	2006	1913	1854	1823
ENERGY (ft.-lbs.)	1386	1265	1153	1048	984	952
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.7"	-9.9"	-12.7"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.4"	-7.1"	-9.6"
TRAJ: 150 m. zero	-.8"	1.9"	2.2"	0.0	-3.0"	-5.1"
TRAJ: 200 yds. zero	-.8"	2.7"	3.9"	2.5"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.2"	4.8"	3.8"	1.6"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2100	2004	1912	1821	1764	1734
ENERGY (ft.-lbs.)	1263	1151	1046	950	891	861
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.4"	-11.2"	-14.2"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.7"	-7.9"	-10.6"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.3"	-5.6"
TRAJ: 200 yds. zero	-.8"	3.0"	4.3"	2.7"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.5"	5.3"	4.2"	1.8"	0.0
VELOCITY (fps)	2000	1907	1817	1730	1675	1647
ENERGY (ft.-lbs.)	1146	1042	946	857	803	776
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.3"	-12.6"	-15.9"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.2"	-8.8"	-11.8"
TRAJ: 150 m. zero	-.8"	2.4"	2.8"	0.0	-3.7"	-6.3"
TRAJ: 200 yds. zero	-.8"	3.4"	4.8"	3.0"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	4.0"	5.9"	4.7"	2.0"	0.0
VELOCITY (fps)	1900	1810	1724	1640	1587	1560
ENERGY (ft.-lbs.)	1034	939	851	770	721	697
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.2"	-14.2"	-18.0"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.7"	-9.8"	-13.2"
TRAJ: 150 m. zero	-.8"	2.7"	3.1"	0.0	-4.1"	-7.0"
TRAJ: 200 yds. zero	-.8"	3.9"	5.4"	3.4"	0.0	-2.5"
TRAJ: 200 m. zero	-.8"	4.5"	6.6"	5.2"	2.3"	0.0
VELOCITY (fps)	1800	1714	1631	1551	1501	1475
ENERGY (ft.-lbs.)	928	841	761	689	645	623
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.4"	-16.1"	-20.4"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.3"	-11.1"	-14.9"
TRAJ: 150 m. zero	-.8"	3.1"	3.5"	0.0	-4.6"	-7.8"
TRAJ: 200 yds. zero	-.8"	4.4"	6.1"	3.8"	0.0	-2.8"
TRAJ: 200 m. zero	-.8"	5.1"	7.4"	5.9"	2.5"	0.0
VELOCITY (fps)	1700	1618	1539	1464	1417	1393
ENERGY (ft.-lbs.)	828	749	678	614	575	556
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-10.7"	-18.3"	-23.2"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.0"	-12.5"	-16.8"
TRAJ: 150 m. zero	-.8"	3.6"	4.0"	0.0	-5.2"	-8.8"
TRAJ: 200 yds. zero	-.8"	5.0"	6.8"	4.3"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.8"	8.4"	6.6"	2.8"	0.0
VELOCITY (fps)	1600	1522	1448	1378	1335	1313
ENERGY (ft.-lbs.)	733	663	600	544	510	494
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.3"	-21.0"	-26.5"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-6.8"	-14.2"	-19.1"
TRAJ: 150 m. zero	-.8"	4.1"	4.5"	0.0	-5.9"	-10.0"
TRAJ: 200 yds. zero	-.8"	5.7"	7.8"	4.9"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	6.6"	9.5"	7.5"	3.2"	0.0

6.5MM CALIBER (.264" Dia.) 140 GRAIN SPIRE POINT
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .465

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2700	2594	2491	2391	2326	2292
ENERGY (ft.-lbs.)	2266	2092	1929	1776	1681	1633
TRAJ: 50 m. zero	-.8"	0.0	-0.7"	-3.2"	-5.7"	-7.4"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.0"	-4.4"	-5.9"
TRAJ: 150 m. zero	-.8"	1.1"	1.4"	0.0	-1.9"	-3.2"
TRAJ: 200 yds. zero	-.8"	1.6"	2.4"	1.5"	0.0	-1.1"
TRAJ: 200 m. zero	-.8"	1.8"	3.0"	2.4"	1.0"	0.0
VELOCITY (fps)	2600	2497	2396	2297	2234	2201
ENERGY (ft.-lbs.)	2101	1938	1784	1640	1551	1506
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.5"	-6.4"	-8.2"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.2"	-4.8"	-6.5"
TRAJ: 150 m. zero	-.8"	1.2"	1.5"	0.0	-2.0"	-3.5"
TRAJ: 200 yds. zero	-.8"	1.7"	2.6"	1.7"	0.0	-1.2"
TRAJ: 200 m. zero	-.8"	2.0"	3.2"	2.6"	1.1"	0.0
VELOCITY (fps)	2500	2399	2300	2204	2142	2110
ENERGY (ft.-lbs.)	1943	1789	1645	1510	1426	1384
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.0"	-7.1"	-9.1"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.5"	-5.2"	-7.1"
TRAJ: 150 m. zero	-.8"	1.3"	1.6"	0.0	-2.2"	-3.8"
TRAJ: 200 yds. zero	-.8"	1.9"	2.9"	1.8"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.3"	3.5"	2.8"	1.2"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2400	2301	2205	2111	2050	2019
ENERGY (ft.-lbs.)	1790	1646	1511	1385	1306	1267
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.5"	-7.9"	-10.1"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.7"	-5.8"	-7.8"
TRAJ: 150 m. zero	-.8"	1.5"	1.8"	0.0	-2.5"	-4.1"
TRAJ: 200 yds. zero	-.8"	2.2"	3.2"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.5"	3.9"	3.1"	1.3"	0.0
VELOCITY (fps)	2300	2204	2110	2018	1959	1929
ENERGY (ft.-lbs.)	1644	1509	1383	1266	1193	1156
TRAJ: 50 m. zero	-.8"	0.0	-1.3"	-5.0"	-8.8"	-11.2"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.0"	-6.4"	-8.6"
TRAJ: 150 m. zero	-.8"	1.7"	2.0"	0.0	-2.7"	-4.6"
TRAJ: 200 yds. zero	-.8"	2.4"	3.5"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.8"	4.3"	3.4"	1.5"	0.0
VELOCITY (fps)	2200	2106	2014	1925	1868	1838
ENERGY (ft.-lbs.)	1504	1379	1261	1152	1084	1051
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.6"	-9.9"	-12.6"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.3"	-7.0"	-9.5"
TRAJ: 150 m. zero	-.8"	1.9"	2.2"	0.0	-3.0"	-5.0"
TRAJ: 200 yds. zero	-.8"	2.7"	3.8"	2.4"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.1"	4.7"	3.8"	1.6"	0.0
VELOCITY (fps)	2100	2009	1919	1833	1778	1749
ENERGY (ft.-lbs.)	1371	1254	1145	1044	982	951
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.4"	-11.1"	-14.1"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.7"	-7.8"	-10.5"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.3"	-5.6"
TRAJ: 200 yds. zero	-.8"	3.0"	4.3"	2.7"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.5"	5.3"	4.2"	1.8"	0.0
VELOCITY (fps)	2000	1911	1825	1741	1688	1661
ENERGY (ft.-lbs.)	1243	1135	1035	942	886	857
TRAJ: 50 m. zero	-.8"	0.0	-2.0"	-7.2"	-12.5"	-15.8"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.1"	-8.7"	-11.7"
TRAJ: 150 m. zero	-.8"	2.4"	2.8"	0.0	-3.7"	-6.2"
TRAJ: 200 yds. zero	-.8"	3.4"	4.8"	3.0"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	4.0"	5.9"	4.6"	2.0"	0.0
VELOCITY (fps)	1900	1814	1731	1651	1600	1574
ENERGY (ft.-lbs.)	1122	1023	931	847	795	770
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.2"	-14.1"	-17.8"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.6"	-9.8"	-13.1"
TRAJ: 150 m. zero	-.8"	2.7"	3.1"	0.0	-4.1"	-6.9"
TRAJ: 200 yds. zero	-.8"	3.8"	5.3"	3.4"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.5"	6.6"	5.2"	2.2"	0.0
VELOCITY (fps)	1800	1717	1638	1561	1513	1488
ENERGY (ft.-lbs.)	1007	917	834	757	711	688
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.3"	-16.0"	-20.2"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.2"	-11.0"	-14.7"
TRAJ: 150 m. zero	-.8"	3.1"	3.5"	0.0	-4.6"	-7.8"
TRAJ: 200 yds. zero	-.8"	4.4"	6.0"	3.8"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	5.0"	7.4"	5.8"	2.5"	0.0
VELOCITY (fps)	1700	1621	1545	1473	1428	1405
ENERGY (ft.-lbs.)	898	817	742	674	634	613
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-10.7"	-18.2"	-23.0"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-5.9"	-12.4"	-16.7"
TRAJ: 150 m. zero	-.8"	3.6"	4.0"	0.0	-5.2"	-8.8"
TRAJ: 200 yds. zero	-.8"	5.0"	6.8"	4.3"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.7"	8.3"	6.6"	2.8"	0.0
VELOCITY (fps)	1600	1525	1454	1387	1345	1324
ENERGY (ft.-lbs.)	796	723	657	598	562	545
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.3"	-20.8"	-26.2"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-6.7"	-14.1"	-18.9"
TRAJ: 150 m. zero	-.8"	4.1"	4.5"	0.0	-5.9"	-9.9"
TRAJ: 200 yds. zero	-.8"	5.7"	7.7"	4.8"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	6.6"	9.5"	7.4"	3.2"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1500	1430	1364	1303	1266	1247
ENERGY (ft.-lbs.)	699	636	579	528	498	483
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.1"	-23.9"	-30.1"
TRAJ: 100 m. zero	-.8"	2.1"	0.0	-7.7"	-16.1"	-21.6"
TRAJ: 150 m. zero	-.8"	4.7"	5.1"	0.0	-6.7"	-11.3"
TRAJ: 200 yds. zero	-.8"	6.5"	8.8"	5.5"	0.0	-4.0"
TRAJ: 200 m. zero	-.8"	7.5"	10.8"	8.5"	3.6"	0.0

6.5MM CALIBER (.264" Dia.) 140 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .484

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2700	2599	2499	2402	2340	2308
ENERGY (ft.-lbs.)	2266	2099	1942	1794	1702	1655
TRAJ: 50 m. zero	-.8"	0.0	-0.7"	-3.1"	-5.7"	-7.3"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.0"	-4.3"	-5.9"
TRAJ: 150 m. zero	-.8"	1.0"	1.4"	0.0	-1.9"	-3.2"
TRAJ: 200 yds. zero	-.8"	1.6"	2.4"	1.5"	0.0	-1.1"
TRAJ: 200 m. zero	-.8"	1.8"	2.9"	2.4"	1.0"	0.0
VELOCITY (fps)	2600	2501	2404	2309	2248	2216
ENERGY (ft.-lbs.)	2101	1944	1796	1657	1570	1526
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.5"	-6.3"	-8.1"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.2"	-4.7"	-6.4"
TRAJ: 150 m. zero	-.8"	1.2"	1.5"	0.0	-2.0"	-3.4"
TRAJ: 200 yds. zero	-.8"	1.7"	2.6"	1.7"	0.0	-1.2"
TRAJ: 200 m. zero	-.8"	2.0"	3.2"	2.6"	1.1"	0.0
VELOCITY (fps)	2500	2403	2308	2215	2155	2125
ENERGY (ft.-lbs.)	1943	1795	1656	1525	1444	1403
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-3.9"	-7.0"	-9.0"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.5"	-5.2"	-7.0"
TRAJ: 150 m. zero	-.8"	1.3"	1.6"	0.0	-2.2"	-3.8"
TRAJ: 200 yds. zero	-.8"	1.9"	2.8"	1.8"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.3"	3.5"	2.8"	1.2"	0.0
VELOCITY (fps)	2400	2305	2212	2122	2063	2033
ENERGY (ft.-lbs.)	1790	1652	1521	1399	1323	1285
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.4"	-7.8"	-10.0"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.7"	-5.7"	-7.7"
TRAJ: 150 m. zero	-.8"	1.5"	1.8"	0.0	-2.4"	-4.1"
TRAJ: 200 yds. zero	-.8"	2.1"	3.1"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.5"	3.9"	3.1"	1.3"	0.0
VELOCITY (fps)	2300	2207	2117	2029	1972	1942
ENERGY (ft.-lbs.)	1644	1514	1393	1279	1208	1173
TRAJ: 50 m. zero	-.8"	0.0	-1.3"	-5.0"	-8.7"	-11.2"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.0"	-6.3"	-8.5"
TRAJ: 150 m. zero	-.8"	1.7"	2.0"	0.0	-2.7"	-4.5"
TRAJ: 200 yds. zero	-.8"	2.4"	3.5"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.8"	4.2"	3.4"	1.5"	0.0
VELOCITY (fps)	2200	2110	2021	1936	1880	1852
ENERGY (ft.-lbs.)	1504	1383	1270	1164	1099	1066
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.6"	-9.8"	-12.5"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.3"	-7.0"	-9.4"
TRAJ: 150 m. zero	-.8"	1.9"	2.2"	0.0	-2.9"	-5.0"
TRAJ: 200 yds. zero	-.8"	2.7"	3.8"	2.4"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.1"	4.7"	3.7"	1.6"	0.0
VELOCITY (fps)	2100	2012	1926	1843	1790	1762
ENERGY (ft.-lbs.)	1371	1258	1153	1056	995	965
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.3"	-11.0"	-14.0"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.7"	-7.8"	-10.4"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.3"	-5.5"
TRAJ: 200 yds. zero	-.8"	3.0"	4.2"	2.7"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.5"	5.2"	4.1"	1.8"	0.0
VELOCITY (fps)	2000	1915	1832	1751	1700	1673
ENERGY (ft.-lbs.)	1243	1139	1043	953	898	870
TRAJ: 50 m. zero	-.8"	0.0	-2.0"	-7.2"	-12.4"	-15.7"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.1"	-8.7"	-11.6"
TRAJ: 150 m. zero	-.8"	2.4"	2.7"	0.0	-3.6"	-6.1"
TRAJ: 200 yds. zero	-.8"	3.4"	4.7"	3.0"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	3.9"	5.8"	4.6"	2.0"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1900	1817	1737	1660	1611	1586
ENERGY (ft.-lbs.)	1122	1027	938	856	806	781
TRAJ: 50 m. zero	-.8"	0.0	-2.3"	-8.1"	-14.0"	-17.7"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.6"	-9.7"	-13.0"
TRAJ: 150 m. zero	-.8"	2.7"	3.1"	0.0	-4.1"	-6.9"
TRAJ: 200 yds. zero	-.8"	3.8"	5.3"	3.3"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.4"	6.5"	5.1"	2.2"	0.0
VELOCITY (fps)	1800	1720	1644	1570	1523	1499
ENERGY (ft.-lbs.)	1007	920	840	766	721	699
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.3"	-15.9"	-20.0"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.2"	-10.9"	-14.6"
TRAJ: 150 m. zero	-.8"	3.1"	3.5"	0.0	-4.6"	-7.7"
TRAJ: 200 yds. zero	-.8"	4.3"	6.0"	3.7"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	5.0"	7.3"	5.8"	2.5"	0.0
VELOCITY (fps)	1700	1624	1551	1481	1437	1415
ENERGY (ft.-lbs.)	898	820	748	682	642	623
TRAJ: 50 m. zero	-.8"	0.0	-3.1"	-10.6"	-18.1"	-22.8"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-5.9"	-12.3"	-16.5"
TRAJ: 150 m. zero	-.8"	3.5"	3.9"	0.0	-5.1"	-8.7"
TRAJ: 200 yds. zero	-.8"	4.9"	6.7"	4.2"	0.0	-3.0"
TRAJ: 200 m. zero	-.8"	5.7"	8.3"	6.5"	2.8"	0.0
VELOCITY (fps)	1600	1528	1460	1395	1354	1334
ENERGY (ft.-lbs.)	796	726	662	604	570	553
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.2"	-20.7"	-26.1"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-6.7"	-14.0"	-18.8"
TRAJ: 150 m. zero	-.8"	4.1"	4.5"	0.0	-5.8"	-9.8"
TRAJ: 200 yds. zero	-.8"	5.7"	7.7"	4.8"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	6.5"	9.4"	7.4"	3.2"	0.0
VELOCITY (fps)	1500	1433	1369	1310	1274	1255
ENERGY (ft.-lbs.)	699	638	583	534	504	490
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.1"	-23.8"	-29.9"
TRAJ: 100 m. zero	-.8"	2.1"	0.0	-7.7"	-16.0"	-21.4"
TRAJ: 150 m. zero	-.8"	4.7"	5.1"	0.0	-6.6"	-11.2"
TRAJ: 200 yds. zero	-.8"	6.5"	8.7"	5.4"	0.0	-3.9"
TRAJ: 200 m. zero	-.8"	7.5"	10.7"	8.4"	3.6"	0.0

**270 CALIBER (.277" Dia.) 130 GRAIN SPIRE POINT
SECTIONAL DENSITY: .242 BALLISTIC COEFFICIENT: .409**

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2500	2385	2274	2165	2095	2059
ENERGY (ft.-lbs.)	1804	1642	1492	1353	1267	1224
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.1"	-7.3"	-9.3"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.5"	-5.4"	-7.3"
TRAJ: 150 m. zero	-.8"	1.4"	1.7"	0.0	-2.3"	-3.9"
TRAJ: 200 yds. zero	-.8"	2.0"	2.9"	1.9"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.3"	3.6"	2.9"	1.3"	0.0
VELOCITY (fps)	2400	2288	2179	2073	2005	1970
ENERGY (ft.-lbs.)	1662	1511	1370	1240	1160	1120
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.6"	-8.1"	-10.4"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-5.9"	-8.0"
TRAJ: 150 m. zero	-.8"	1.5"	1.9"	0.0	-2.5"	-4.3"
TRAJ: 200 yds. zero	-.8"	2.2"	3.2"	2.1"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.6"	4.0"	3.2"	1.4"	0.0
VELOCITY (fps)	2300	2191	2084	1981	1915	1881
ENERGY (ft.-lbs.)	1527	1385	1254	1132	1058	1021
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.1"	-9.0"	-11.5"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.1"	-6.5"	-8.8"
TRAJ: 150 m. zero	-.8"	1.7"	2.1"	0.0	-2.8"	-4.7"
TRAJ: 200 yds. zero	-.8"	2.5"	3.6"	2.3"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	2.9"	4.4"	3.5"	1.5"	0.0
VELOCITY (fps)	2200	2093	1990	1889	1825	1792
ENERGY (ft.-lbs.)	1397	1265	1143	1030	961	927
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.8"	-10.1"	-12.9"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.4"	-7.2"	-9.7"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.1"	-5.2"
TRAJ: 200 yds. zero	-.8"	2.8"	4.0"	2.5"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.2"	4.9"	3.9"	1.7"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2100	1996	1895	1798	1736	1704
ENERGY (ft.-lbs.)	1273	1150	1037	933	870	838
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.5"	-11.3"	-14.4"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.8"	-8.0"	-10.8"
TRAJ: 150 m. zero	-.8"	2.2"	2.5"	0.0	-3.4"	-5.7"
TRAJ: 200 yds. zero	-.8"	3.1"	4.4"	2.8"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.6"	5.4"	4.3"	1.9"	0.0
VELOCITY (fps)	2000	1899	1802	1708	1648	1618
ENERGY (ft.-lbs.)	1154	1041	937	842	784	756
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.4"	-12.8"	-16.2"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.2"	-9.0"	-12.1"
TRAJ: 150 m. zero	-.8"	2.5"	2.8"	0.0	-3.8"	-6.4"
TRAJ: 200 yds. zero	-.8"	3.5"	4.9"	3.1"	0.0	-2.3"
TRAJ: 200 m. zero	-.8"	4.1"	6.0"	4.8"	2.1"	0.0
VELOCITY (fps)	1900	1803	1709	1619	1562	1533
ENERGY (ft.-lbs.)	1042	938	843	756	704	678
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.4"	-14.4"	-18.3"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.8"	-10.0"	-13.5"
TRAJ: 150 m. zero	-.8"	2.8"	3.2"	0.0	-4.2"	-7.1"
TRAJ: 200 yds. zero	-.8"	3.9"	5.5"	3.5"	0.0	-2.5"
TRAJ: 200 m. zero	-.8"	4.6"	6.7"	5.4"	2.3"	0.0
VELOCITY (fps)	1800	1706	1616	1531	1477	1450
ENERGY (ft.-lbs.)	935	840	754	676	630	607
TRAJ: 50 m. zero	-.8"	0.0	-2.8"	-9.5"	-16.3"	-20.7"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.4"	-11.3"	-15.2"
TRAJ: 150 m. zero	-.8"	3.2"	3.6"	0.0	-4.7"	-8.0"
TRAJ: 200 yds. zero	-.8"	4.5"	6.2"	3.9"	0.0	-2.8"
TRAJ: 200 m. zero	-.8"	5.2"	7.6"	6.0"	2.6"	0.0
VELOCITY (fps)	1700	1610	1525	1445	1394	1369
ENERGY (ft.-lbs.)	834	748	671	602	561	541
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-10.9"	-18.6"	-23.5"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.1"	-12.8"	-17.1"
TRAJ: 150 m. zero	-.8"	3.6"	4.0"	0.0	-5.3"	-9.0"
TRAJ: 200 yds. zero	-.8"	5.1"	7.0"	4.4"	0.0	-3.2"
TRAJ: 200 m. zero	-.8"	5.9"	8.6"	6.8"	2.9"	0.0
VELOCITY (fps)	1600	1515	1435	1361	1314	1292
ENERGY (ft.-lbs.)	739	663	595	534	499	481
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.5"	-21.3"	-26.9"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-6.9"	-14.5"	-19.4"
TRAJ: 150 m. zero	-.8"	4.2"	4.6"	0.0	-6.1"	-10.2"
TRAJ: 200 yds. zero	-.8"	5.8"	7.9"	5.0"	0.0	-3.6"
TRAJ: 200 m. zero	-.8"	6.7"	9.7"	7.7"	3.3"	0.0
VELOCITY (fps)	1500	1421	1347	1279	1238	1218
ENERGY (ft.-lbs.)	649	583	524	472	443	428
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.4"	-24.5"	-30.8"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-7.9"	-16.5"	-22.2"
TRAJ: 150 m. zero	-.8"	4.8"	5.3"	0.0	-6.9"	-11.6"
TRAJ: 200 yds. zero	-.8"	6.7"	9.0"	5.6"	0.0	-4.1"
TRAJ: 200 m. zero	-.8"	7.7"	11.1"	8.7"	3.7"	0.0
VELOCITY (fps)	1400	1328	1262	1202	1167	1150
ENERGY (ft.-lbs.)	566	509	460	417	393	382
TRAJ: 50 m. zero	-.8"	0.0	-5.1"	-16.7"	-28.2"	-35.5"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-9.1"	-18.9"	-25.3"
TRAJ: 150 m. zero	-.8"	5.6"	6.1"	0.0	-7.8"	-13.2"
TRAJ: 200 yds. zero	-.8"	7.7"	10.3"	6.4"	0.0	-4.6"
TRAJ: 200 m. zero	-.8"	8.9"	12.7"	9.9"	4.2"	0.0
VELOCITY (fps)	1300	1237	1180	1131	1102	1088
ENERGY (ft.-lbs.)	488	441	402	369	351	342
TRAJ: 50 m. zero	-.8"	0.0	-6.0"	-19.4"	-32.7"	-41.0"
TRAJ: 100 m. zero	-.8"	3.0"	0.0	-10.5"	-21.7"	-29.0"
TRAJ: 150 m. zero	-.8"	6.5"	7.0"	0.0	-9.0"	-15.1"
TRAJ: 200 yds. zero	-.8"	8.9"	11.9"	7.4"	0.0	-5.3"
TRAJ: 200 m. zero	-.8"	10.3"	14.5"	11.3"	4.8"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1200	1148	1103	1065	1042	1031
ENERGY (ft.-lbs.)	416	380	351	327	313	307
TRAJ: 50 m. zero	-.8"	0.0	-7.1"	-22.7"	-37.9"	-47.4"
TRAJ: 100 m. zero	-.8"	3.5"	0.0	-12.1"	-25.0"	-33.3"
TRAJ: 150 m. zero	-.8"	7.6"	8.0"	0.0	-10.2"	-17.2"
TRAJ: 200 yds. zero	-.8"	10.4"	13.6"	8.4"	0.0	-6.0"
TRAJ: 200 m. zero	-.8"	11.9"	16.6"	12.9"	5.5"	0.0
VELOCITY (fps)	1100	1062	1029	1000	983	974
ENERGY (ft.-lbs.)	349	325	306	289	279	274
TRAJ: 50 m. zero	-.8"	0.0	-8.4"	-26.6"	-44.2"	-55.2"
TRAJ: 100 m. zero	-.8"	4.2"	0.0	-14.0"	-28.8"	-38.4"
TRAJ: 150 m. zero	-.8"	8.9"	9.3"	0.0	-11.8"	-19.7"
TRAJ: 200 yds. zero	-.8"	12.1"	15.8"	9.7"	0.0	-6.9"
TRAJ: 200 m. zero	-.8"	13.8"	19.2"	14.8"	6.3"	0.0
VELOCITY (fps)	1000	974	950	929	915	909
ENERGY (ft.-lbs.)	289	274	261	249	242	238
TRAJ: 50 m. zero	-.8"	0.0	-10.1"	-31.8"	-52.5"	-65.4"
TRAJ: 100 m. zero	-.8"	5.1"	0.0	-16.6"	-34.0"	-45.2"
TRAJ: 150 m. zero	-.8"	10.6"	11.0"	0.0	-13.8"	-23.1"
TRAJ: 200 yds. zero	-.8"	14.4"	18.6"	11.3"	0.0	-8.0"
TRAJ: 200 m. zero	-.8"	16.4"	22.6"	17.3"	7.3"	0.0

270 CALIBER (.277" Dia.) 140 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .261 BALLISTIC COEFFICIENT: .486

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2500	2403	2309	2216	2157	2126
ENERGY (ft.-lbs.)	1943	1795	1657	1527	1446	1405
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-3.9"	-7.0"	-9.0"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.4"	-5.2"	-7.0"
TRAJ: 150 m. zero	-.8"	1.3"	1.6"	0.0	-2.2"	-3.7"
TRAJ: 200 yds. zero	-.8"	1.9"	2.8"	1.8"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.3"	3.5"	2.8"	1.2"	0.0
VELOCITY (fps)	2400	2306	2213	2123	2065	2035
ENERGY (ft.-lbs.)	1790	1652	1522	1401	1325	1287
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.4"	-7.8"	-10.0"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.7"	-5.7"	-7.7"
TRAJ: 150 m. zero	-.8"	1.5"	1.8"	0.0	-2.4"	-4.1"
TRAJ: 200 yds. zero	-.8"	2.1"	3.1"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.5"	3.9"	3.1"	1.3"	0.0
VELOCITY (fps)	2300	2208	2118	2030	1973	1944
ENERGY (ft.-lbs.)	1644	1515	1394	1280	1210	1174
TRAJ: 50 m. zero	-.8"	0.0	-1.3"	-5.0"	-8.7"	-11.2"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.0"	-6.3"	-8.5"
TRAJ: 150 m. zero	-.8"	1.7"	2.0"	0.0	-2.7"	-4.5"
TRAJ: 200 yds. zero	-.8"	2.4"	3.4"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.8"	4.2"	3.4"	1.5"	0.0
VELOCITY (fps)	2200	2110	2022	1937	1881	1853
ENERGY (ft.-lbs.)	1504	1384	1271	1166	1100	1067
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.6"	-9.8"	-12.5"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.3"	-7.0"	-9.4"
TRAJ: 150 m. zero	-.8"	1.9"	2.2"	0.0	-2.9"	-5.0"
TRAJ: 200 yds. zero	-.8"	2.7"	3.8"	2.4"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.1"	4.7"	3.7"	1.6"	0.0
VELOCITY (fps)	2100	2012	1927	1844	1791	1763
ENERGY (ft.-lbs.)	1371	1259	1154	1057	997	967
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.3"	-11.0"	-14.0"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.7"	-7.8"	-10.4"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.3"	-5.5"
TRAJ: 200 yds. zero	-.8"	3.0"	4.2"	2.7"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.5"	5.2"	4.1"	1.8"	0.0
VELOCITY (fps)	2000	1915	1832	1752	1701	1674
ENERGY (ft.-lbs.)	1243	1140	1043	954	899	871
TRAJ: 50 m. zero	-.8"	0.0	-2.0"	-7.2"	-12.4"	-15.7"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.1"	-8.6"	-11.6"
TRAJ: 150 m. zero	-.8"	2.4"	2.7"	0.0	-3.6"	-6.1"
TRAJ: 200 yds. zero	-.8"	3.4"	4.7"	3.0"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	3.9"	5.8"	4.6"	2.0"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1900	1818	1738	1661	1612	1587
ENERGY (ft.-lbs.)	1122	1027	939	857	807	783
TRAJ: 50 m. zero	-.8"	0.0	-2.3"	-8.1"	-14.0"	-17.7"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.6"	-9.7"	-13.0"
TRAJ: 150 m. zero	-.8"	2.7"	3.1"	0.0	-4.1"	-6.8"
TRAJ: 200 yds. zero	-.8"	3.8"	5.3"	3.3"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.4"	6.5"	5.1"	2.2"	0.0
VELOCITY (fps)	1800	1721	1644	1571	1524	1501
ENERGY (ft.-lbs.)	1007	920	840	767	722	700
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.3"	-15.8"	-20.0"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.2"	-10.9"	-14.6"
TRAJ: 150 m. zero	-.8"	3.1"	3.5"	0.0	-4.6"	-7.7"
TRAJ: 200 yds. zero	-.8"	4.3"	6.0"	3.7"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	5.0"	7.3"	5.8"	2.5"	0.0
VELOCITY (fps)	1700	1624	1552	1482	1438	1416
ENERGY (ft.-lbs.)	898	820	748	683	643	623
TRAJ: 50 m. zero	-.8"	0.0	-3.1"	-10.6"	-18.0"	-22.8"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-5.9"	-12.3"	-16.5"
TRAJ: 150 m. zero	-.8"	3.5"	3.9"	0.0	-5.1"	-8.7"
TRAJ: 200 yds. zero	-.8"	4.9"	6.7"	4.2"	0.0	-3.0"
TRAJ: 200 m. zero	-.8"	5.7"	8.3"	6.5"	2.8"	0.0
VELOCITY (fps)	1600	1528	1460	1395	1355	1335
ENERGY (ft.-lbs.)	796	726	663	605	571	554
TRAJ: 50 m. zero	-.8"	0.0	-3.6"	-12.2"	-20.7"	-26.0"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-6.7"	-14.0"	-18.7"
TRAJ: 150 m. zero	-.8"	4.1"	4.5"	0.0	-5.8"	-9.8"
TRAJ: 200 yds. zero	-.8"	5.6"	7.6"	4.8"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	6.5"	9.4"	7.3"	3.2"	0.0
VELOCITY (fps)	1500	1433	1370	1311	1274	1256
ENERGY (ft.-lbs.)	699	638	583	534	505	490
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.1"	-23.8"	-29.9"
TRAJ: 100 m. zero	-.8"	2.1"	0.0	-7.7"	-16.0"	-21.4"
TRAJ: 150 m. zero	-.8"	4.7"	5.1"	0.0	-6.6"	-11.2"
TRAJ: 200 yds. zero	-.8"	6.5"	8.7"	5.4"	0.0	-3.9"
TRAJ: 200 m. zero	-.8"	7.5"	10.7"	8.4"	3.6"	0.0
VELOCITY (fps)	1400	1339	1282	1230	1198	1182
ENERGY (ft.-lbs.)	609	557	511	470	446	435
TRAJ: 50 m. zero	-.8"	0.0	-5.0"	-16.3"	-27.5"	-34.5"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-8.8"	-18.3"	-24.5"
TRAJ: 150 m. zero	-.8"	5.4"	5.9"	0.0	-7.6"	-12.7"
TRAJ: 200 yds. zero	-.8"	7.5"	10.0"	6.2"	0.0	-4.5"
TRAJ: 200 m. zero	-.8"	8.6"	12.3"	9.6"	4.1"	0.0
VELOCITY (fps)	1300	1246	1197	1153	1127	1114
ENERGY (ft.-lbs.)	525	483	445	413	395	386
TRAJ: 50 m. zero	-.8"	0.0	-5.9"	-19.0"	-31.9"	-40.0"
TRAJ: 100 m. zero	-.8"	2.9"	0.0	-10.2"	-21.1"	-28.2"
TRAJ: 150 m. zero	-.8"	6.3"	6.8"	0.0	-8.7"	-14.6"
TRAJ: 200 yds. zero	-.8"	8.7"	11.5"	7.1"	0.0	-5.1"
TRAJ: 200 m. zero	-.8"	10.0"	14.1"	11.0"	4.7"	0.0
VELOCITY (fps)	1200	1156	1117	1082	1062	1052
ENERGY (ft.-lbs.)	448	415	388	364	350	344
TRAJ: 50 m. zero	-.8"	0.0	-7.0"	-22.3"	-37.1"	-46.4"
TRAJ: 100 m. zero	-.8"	3.5"	0.0	-11.8"	-24.4"	-32.5"
TRAJ: 150 m. zero	-.8"	7.4"	7.9"	0.0	-10.0"	-16.7"
TRAJ: 200 yds. zero	-.8"	10.2"	13.3"	8.2"	0.0	-5.8"
TRAJ: 200 m. zero	-.8"	11.6"	16.2"	12.5"	5.3"	0.0
VELOCITY (fps)	1100	1068	1039	1013	998	990
ENERGY (ft.-lbs.)	376	354	335	319	309	305
TRAJ: 50 m. zero	-.8"	0.0	-8.3"	-26.2"	-43.5"	-54.3"
TRAJ: 100 m. zero	-.8"	4.2"	0.0	-13.8"	-28.3"	-37.7"
TRAJ: 150 m. zero	-.8"	8.7"	9.2"	0.0	-11.5"	-19.3"
TRAJ: 200 yds. zero	-.8"	11.9"	15.5"	9.4"	0.0	-6.7"
TRAJ: 200 m. zero	-.8"	13.6"	18.8"	14.5"	6.1"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1000	978	958	939	927	921
ENERGY (ft.-lbs.)	311	297	285	274	267	264
TRAJ: 50 m. zero	-.8"	0.0	-10.1"	-31.4"	-51.9"	-64.6"
TRAJ: 100 m. zero	-.8"	5.0"	0.0	-16.3"	-33.5"	-44.5"
TRAJ: 150 m. zero	-.8"	10.5"	10.9"	0.0	-13.6"	-22.7"
TRAJ: 200 yds. zero	-.8"	14.2"	18.3"	11.1"	0.0	-7.8"
TRAJ: 200 m. zero	-.8"	16.1"	22.2"	17.0"	7.2"	0.0

7MM CALIBER (.284" Dia.) 120 GRAIN SPIRE POINT OR SINGLE SHOT PISTOL
SECTIONAL DENSITY: .213 BALLISTIC COEFFICIENT: .350

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2500	2366	2237	2111	2031	1990
ENERGY (ft.-lbs.)	1665	1492	1333	1188	1099	1055
TRAJ: 50 m. zero	-.8"	0.0	-1.1"	-4.2"	-7.5"	-9.7"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.6"	-5.6"	-7.5"
TRAJ: 150 m. zero	-.8"	1.4"	1.7"	0.0	-2.4"	-4.1"
TRAJ: 200 yds. zero	-.8"	2.1"	3.0"	2.0"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.4"	3.8"	3.1"	1.3"	0.0
VELOCITY (fps)	2400	2269	2143	2020	1942	1902
ENERGY (ft.-lbs.)	1535	1372	1223	1087	1005	964
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.7"	-8.4"	-10.7"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.9"	-6.1"	-8.3"
TRAJ: 150 m. zero	-.8"	1.6"	1.9"	0.0	-2.6"	-4.5"
TRAJ: 200 yds. zero	-.8"	2.3"	3.4"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.7"	4.1"	3.3"	1.5"	0.0
VELOCITY (fps)	2300	2172	2049	1930	1854	1815
ENERGY (ft.-lbs.)	1409	1257	1119	992	916	878
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.3"	-9.3"	-12.0"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.2"	-6.8"	-9.2"
TRAJ: 150 m. zero	-.8"	1.8"	2.1"	0.0	-2.9"	-4.9"
TRAJ: 200 yds. zero	-.8"	2.6"	3.7"	2.4"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	3.0"	4.6"	3.7"	1.6"	0.0
VELOCITY (fps)	2200	2076	1955	1840	1766	1729
ENERGY (ft.-lbs.)	1289	1148	1019	902	831	796
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.9"	-10.4"	-13.4"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.5"	-7.5"	-10.1"
TRAJ: 150 m. zero	-.8"	2.0"	2.4"	0.0	-3.2"	-5.4"
TRAJ: 200 yds. zero	-.8"	2.9"	4.1"	2.6"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.3"	5.1"	4.1"	1.8"	0.0
VELOCITY (fps)	2100	1979	1862	1750	1679	1643
ENERGY (ft.-lbs.)	1175	1043	924	816	751	720
TRAJ: 50 m. zero	-.8"	0.0	-1.9"	-6.7"	-11.7"	-15.0"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.9"	-8.3"	-11.2"
TRAJ: 150 m. zero	-.8"	2.2"	2.6"	0.0	-3.5"	-6.0"
TRAJ: 200 yds. zero	-.8"	3.2"	4.6"	2.9"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.7"	5.6"	4.5"	2.0"	0.0
VELOCITY (fps)	2000	1883	1770	1662	1594	1560
ENERGY (ft.-lbs.)	1066	944	834	736	677	648
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.6"	-13.2"	-16.8"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.4"	-9.3"	-12.5"
TRAJ: 150 m. zero	-.8"	2.5"	2.9"	0.0	-3.9"	-6.7"
TRAJ: 200 yds. zero	-.8"	3.6"	5.1"	3.2"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.2"	6.3"	5.0"	2.2"	0.0
VELOCITY (fps)	1900	1786	1678	1575	1510	1478
ENERGY (ft.-lbs.)	962	850	750	661	608	582
TRAJ: 50 m. zero	-.8"	0.0	-2.5"	-8.6"	-14.9"	-19.0"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.9"	-10.4"	-14.0"
TRAJ: 150 m. zero	-.8"	2.9"	3.3"	0.0	-4.4"	-7.5"
TRAJ: 200 yds. zero	-.8"	4.1"	5.7"	3.6"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	4.7"	7.0"	5.6"	2.4"	0.0
VELOCITY (fps)	1800	1691	1587	1489	1429	1398
ENERGY (ft.-lbs.)	863	762	671	591	544	521
TRAJ: 50 m. zero	-.8"	0.0	-2.8"	-9.8"	-16.9"	-21.5"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.5"	-11.7"	-15.8"
TRAJ: 150 m. zero	-.8"	3.3"	3.7"	0.0	-5.0"	-8.4"
TRAJ: 200 yds. zero	-.8"	4.6"	6.4"	4.1"	0.0	-3.0"
TRAJ: 200 m. zero	-.8"	5.4"	7.9"	6.3"	2.7"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1700	1596	1497	1406	1349	1321
ENERGY (ft.-lbs.)	770	678	597	526	485	465
TRAJ: 50 m. zero	-.8"	0.0	-3.3"	-11.2"	-19.2"	-24.4"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.3"	-13.2"	-17.8"
TRAJ: 150 m. zero	-.8"	3.7"	4.2"	0.0	-5.6"	-9.4"
TRAJ: 200 yds. zero	-.8"	5.3"	7.2"	4.6"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	6.1"	8.9"	7.1"	3.1"	0.0
VELOCITY (fps)	1600	1501	1409	1325	1274	1249
ENERGY (ft.-lbs.)	682	601	529	468	432	415
TRAJ: 50 m. zero	-.8"	0.0	-3.8"	-12.9"	-22.0"	-27.8"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.1"	-15.0"	-20.2"
TRAJ: 150 m. zero	-.8"	4.3"	4.8"	0.0	-6.3"	-10.7"
TRAJ: 200 yds. zero	-.8"	6.0"	8.2"	5.2"	0.0	-3.8"
TRAJ: 200 m. zero	-.8"	7.0"	10.1"	8.0"	3.5"	0.0

7MM CALIBER (.284" Dia.) 120 GRAIN HOLLOW POINT
SECTIONAL DENSITY: .213 BALLISTIC COEFFICIENT: .334

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2500	2360	2225	2094	2010	1967
ENERGY (ft.-lbs.)	1665	1484	1319	1168	1076	1031
TRAJ: 50 m. zero	-.8"	0.0	-1.1"	-4.2"	-7.6"	-9.8"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.6"	-5.6"	-7.6"
TRAJ: 150 m. zero	-.8"	1.4"	1.8"	0.0	-2.4"	-4.1"
TRAJ: 200 yds. zero	-.8"	2.1"	3.1"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.4"	3.8"	3.1"	1.3"	0.0
VELOCITY (fps)	2400	2263	2131	2003	1922	1880
ENERGY (ft.-lbs.)	1535	1365	1210	1069	984	942
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.8"	-8.5"	-10.9"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.9"	-6.2"	-8.4"
TRAJ: 150 m. zero	-.8"	1.6"	1.9"	0.0	-2.7"	-4.5"
TRAJ: 200 yds. zero	-.8"	2.3"	3.4"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.7"	4.2"	3.4"	1.5"	0.0
VELOCITY (fps)	2300	2166	2037	1913	1834	1794
ENERGY (ft.-lbs.)	1409	1250	1106	975	896	857
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.3"	-9.4"	-12.1"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.2"	-6.9"	-9.3"
TRAJ: 150 m. zero	-.8"	1.8"	2.1"	0.0	-2.9"	-5.0"
TRAJ: 200 yds. zero	-.8"	2.6"	3.7"	2.4"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.0"	4.6"	3.7"	1.6"	0.0
VELOCITY (fps)	2200	2070	1944	1823	1747	1708
ENERGY (ft.-lbs.)	1289	1141	1007	886	813	777
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-6.0"	-10.6"	-13.5"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.6"	-7.6"	-10.3"
TRAJ: 150 m. zero	-.8"	2.0"	2.4"	0.0	-3.2"	-5.5"
TRAJ: 200 yds. zero	-.8"	2.9"	4.2"	2.7"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.4"	5.1"	4.1"	1.8"	0.0
VELOCITY (fps)	2100	1973	1851	1735	1661	1624
ENERGY (ft.-lbs.)	1175	1037	913	802	735	702
TRAJ: 50 m. zero	-.8"	0.0	-1.9"	-6.8"	-11.9"	-15.1"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-4.0"	-8.4"	-11.4"
TRAJ: 150 m. zero	-.8"	2.3"	2.6"	0.0	-3.6"	-6.1"
TRAJ: 200 yds. zero	-.8"	3.2"	4.6"	2.9"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	3.8"	5.7"	4.6"	2.0"	0.0
VELOCITY (fps)	2000	1877	1759	1647	1576	1541
ENERGY (ft.-lbs.)	1066	939	824	723	662	632
TRAJ: 50 m. zero	-.8"	0.0	-2.2"	-7.7"	-13.4"	-17.0"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.4"	-9.4"	-12.7"
TRAJ: 150 m. zero	-.8"	2.6"	3.0"	0.0	-4.0"	-6.8"
TRAJ: 200 yds. zero	-.8"	3.7"	5.1"	3.3"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.3"	6.4"	5.1"	2.2"	0.0
VELOCITY (fps)	1900	1781	1668	1560	1494	1460
ENERGY (ft.-lbs.)	962	845	741	649	594	568
TRAJ: 50 m. zero	-.8"	0.0	-2.5"	-8.7"	-15.1"	-19.2"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-5.0"	-10.5"	-14.2"
TRAJ: 150 m. zero	-.8"	2.9"	3.3"	0.0	-4.5"	-7.6"
TRAJ: 200 yds. zero	-.8"	4.1"	5.8"	3.7"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	4.8"	7.1"	5.7"	2.5"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1800	1686	1577	1476	1413	1382
ENERGY (ft.-lbs.)	863	757	663	580	532	508
TRAJ: 50 m. zero	-.8"	0.0	-2.9"	-9.9"	-17.1"	-21.7"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.6"	-11.9"	-16.0"
TRAJ: 150 m. zero	-.8"	3.3"	3.7"	0.0	-5.0"	-8.5"
TRAJ: 200 yds. zero	-.8"	4.7"	6.5"	4.1"	0.0	-3.0"
TRAJ: 200 m. zero	-.8"	5.4"	8.0"	6.4"	2.8"	0.0
VELOCITY (fps)	1700	1591	1488	1393	1335	1306
ENERGY (ft.-lbs.)	770	674	590	517	475	455
TRAJ: 50 m. zero	-.8"	0.0	-3.3"	-11.3"	-19.5"	-24.7"
TRAJ: 100 m. zero	-.8"	1.7"	0.0	-6.4"	-13.4"	-18.1"
TRAJ: 150 m. zero	-.8"	3.8"	4.2"	0.0	-5.7"	-9.6"
TRAJ: 200 yds. zero	-.8"	5.3"	7.3"	4.6"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	6.2"	9.0"	7.2"	3.1"	0.0
VELOCITY (fps)	1600	1497	1401	1313	1261	1235
ENERGY (ft.-lbs.)	682	597	523	460	423	406
TRAJ: 50 m. zero	-.8"	0.0	-3.8"	-13.0"	-22.2"	-28.2"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.2"	-15.2"	-20.5"
TRAJ: 150 m. zero	-.8"	4.3"	4.8"	0.0	-6.4"	-10.8"
TRAJ: 200 yds. zero	-.8"	6.1"	8.3"	5.2"	0.0	-3.8"
TRAJ: 200 m. zero	-.8"	7.0"	10.2"	8.1"	3.5"	0.0

7MM CALIBER (.284" Dia.) 139 GRAIN SPIRE POINT
SECTIONAL DENSITY: .246 BALLISTIC COEFFICIENT: .392

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2400	2283	2170	2059	1989	1952
ENERGY (ft.-lbs.)	1777	1609	1453	1309	1220	1176
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.6"	-8.2"	-10.5"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-6.0"	-8.1"
TRAJ: 150 m. zero	-.8"	1.5"	1.9"	0.0	-2.5"	-4.3"
TRAJ: 200 yds. zero	-.8"	2.2"	3.3"	2.1"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.6"	4.0"	3.2"	1.4"	0.0
VELOCITY (fps)	2300	2186	2075	1968	1899	1864
ENERGY (ft.-lbs.)	1632	1475	1329	1195	1113	1072
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.2"	-9.1"	-11.6"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.1"	-6.6"	-8.9"
TRAJ: 150 m. zero	-.8"	1.7"	2.1"	0.0	-2.8"	-4.8"
TRAJ: 200 yds. zero	-.8"	2.5"	3.6"	2.3"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	2.9"	4.4"	3.6"	1.5"	0.0
VELOCITY (fps)	2200	2089	1981	1876	1810	1776
ENERGY (ft.-lbs.)	1494	1346	1211	1086	1011	973
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.8"	-10.2"	-13.0"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.4"	-7.3"	-9.8"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.1"	-5.2"
TRAJ: 200 yds. zero	-.8"	2.8"	4.0"	2.5"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.3"	4.9"	3.9"	1.7"	0.0
VELOCITY (fps)	2100	1992	1887	1786	1721	1689
ENERGY (ft.-lbs.)	1361	1224	1099	984	914	880
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.6"	-11.4"	-14.6"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.8"	-8.1"	-10.9"
TRAJ: 150 m. zero	-.8"	2.2"	2.6"	0.0	-3.4"	-5.8"
TRAJ: 200 yds. zero	-.8"	3.1"	4.4"	2.8"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.6"	5.5"	4.4"	1.9"	0.0
VELOCITY (fps)	2000	1895	1793	1696	1634	1603
ENERGY (ft.-lbs.)	1234	1108	993	888	824	793
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.4"	-12.9"	-16.4"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.3"	-9.0"	-12.2"
TRAJ: 150 m. zero	-.8"	2.5"	2.9"	0.0	-3.8"	-6.5"
TRAJ: 200 yds. zero	-.8"	3.5"	4.9"	3.1"	0.0	-2.3"
TRAJ: 200 m. zero	-.8"	4.1"	6.1"	4.9"	2.1"	0.0
VELOCITY (fps)	1900	1798	1701	1607	1548	1519
ENERGY (ft.-lbs.)	1114	998	893	797	740	712
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.4"	-14.5"	-18.5"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.8"	-10.1"	-13.6"
TRAJ: 150 m. zero	-.8"	2.8"	3.2"	0.0	-4.3"	-7.2"
TRAJ: 200 yds. zero	-.8"	4.0"	5.5"	3.5"	0.0	-2.6"
TRAJ: 200 m. zero	-.8"	4.6"	6.8"	5.4"	2.3"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1800	1702	1609	1520	1464	1436
ENERGY (ft.-lbs.)	1000	894	799	713	662	637
TRAJ: 50 m. zero	-.8"	0.0	-2.8"	-9.6"	-16.5"	-20.9"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.4"	-11.4"	-15.3"
TRAJ: 150 m. zero	-.8"	3.2"	3.6"	0.0	-4.8"	-8.1"
TRAJ: 200 yds. zero	-.8"	4.5"	6.2"	3.9"	0.0	-2.9"
TRAJ: 200 m. zero	-.8"	5.2"	7.7"	6.1"	2.6"	0.0
VELOCITY (fps)	1700	1607	1518	1434	1383	1357
ENERGY (ft.-lbs.)	892	797	711	635	590	568
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-11.0"	-18.8"	-23.8"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.1"	-12.9"	-17.3"
TRAJ: 150 m. zero	-.8"	3.7"	4.1"	0.0	-5.4"	-9.1"
TRAJ: 200 yds. zero	-.8"	5.1"	7.0"	4.4"	0.0	-3.2"
TRAJ: 200 m. zero	-.8"	5.9"	8.7"	6.9"	2.9"	0.0
VELOCITY (fps)	1600	1512	1429	1351	1304	1280
ENERGY (ft.-lbs.)	790	705	630	563	525	506
TRAJ: 50 m. zero	-.8"	0.0	-3.8"	-12.6"	-21.5"	-27.1"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.0"	-14.6"	-19.6"
TRAJ: 150 m. zero	-.8"	4.2"	4.6"	0.0	-6.1"	-10.3"
TRAJ: 200 yds. zero	-.8"	5.9"	8.0"	5.0"	0.0	-3.6"
TRAJ: 200 m. zero	-.8"	6.8"	9.8"	7.8"	3.3"	0.0

7MM CALIBER (.284" Dia.) 139 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .246 BALLISTIC COEFFICIENT: .453

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2400	2299	2200	2103	2041	2010
ENERGY (ft.-lbs.)	1777	1631	1494	1365	1286	1246
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.5"	-7.9"	-10.1"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.7"	-5.8"	-7.8"
TRAJ: 150 m. zero	-.8"	1.5"	1.8"	0.0	-2.5"	-4.2"
TRAJ: 200 yds. zero	-.8"	2.2"	3.2"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.5"	3.9"	3.1"	1.3"	0.0
VELOCITY (fps)	2300	2201	2105	2011	1950	1919
ENERGY (ft.-lbs.)	1632	1495	1367	1248	1174	1137
TRAJ: 50 m. zero	-.8"	0.0	-1.3"	-5.0"	-8.9"	-11.3"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.0"	-6.4"	-8.6"
TRAJ: 150 m. zero	-.8"	1.7"	2.0"	0.0	-2.7"	-4.6"
TRAJ: 200 yds. zero	-.8"	2.4"	3.5"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.8"	4.3"	3.4"	1.5"	0.0
VELOCITY (fps)	2200	2104	2010	1918	1859	1829
ENERGY (ft.-lbs.)	1494	1365	1246	1135	1067	1033
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.7"	-9.9"	-12.6"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.3"	-7.1"	-9.5"
TRAJ: 150 m. zero	-.8"	1.9"	2.2"	0.0	-3.0"	-5.1"
TRAJ: 200 yds. zero	-.8"	2.7"	3.9"	2.5"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.2"	4.8"	3.8"	1.6"	0.0
VELOCITY (fps)	2100	2006	1915	1826	1769	1740
ENERGY (ft.-lbs.)	1361	1242	1131	1029	966	935
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.4"	-11.1"	-14.1"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.7"	-7.9"	-10.6"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.3"	-5.6"
TRAJ: 200 yds. zero	-.8"	3.0"	4.3"	2.7"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.5"	5.3"	4.2"	1.8"	0.0
VELOCITY (fps)	2000	1909	1820	1735	1680	1652
ENERGY (ft.-lbs.)	1234	1124	1023	929	871	843
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.2"	-12.5"	-15.9"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.2"	-8.8"	-11.8"
TRAJ: 150 m. zero	-.8"	2.4"	2.8"	0.0	-3.7"	-6.2"
TRAJ: 200 yds. zero	-.8"	3.4"	4.8"	3.0"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	4.0"	5.9"	4.7"	2.0"	0.0
VELOCITY (fps)	1900	1812	1727	1644	1592	1566
ENERGY (ft.-lbs.)	1114	1013	920	834	782	756
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.2"	-14.1"	-17.9"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.7"	-9.8"	-13.2"
TRAJ: 150 m. zero	-.8"	2.7"	3.1"	0.0	-4.1"	-7.0"
TRAJ: 200 yds. zero	-.8"	3.9"	5.4"	3.4"	0.0	-2.5"
TRAJ: 200 m. zero	-.8"	4.5"	6.6"	5.2"	2.2"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1800	1715	1633	1555	1506	1481
ENERGY (ft.-lbs.)	1000	908	823	746	700	677
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.4"	-16.0"	-20.3"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.3"	-11.0"	-14.8"
TRAJ: 150 m. zero	-.8"	3.1"	3.5"	0.0	-4.6"	-7.8"
TRAJ: 200 yds. zero	-.8"	4.4"	6.0"	3.8"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	5.1"	7.4"	5.9"	2.5"	0.0
VELOCITY (fps)	1700	1619	1541	1467	1421	1398
ENERGY (ft.-lbs.)	892	809	733	665	623	603
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-10.7"	-18.3"	-23.1"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.0"	-12.5"	-16.8"
TRAJ: 150 m. zero	-.8"	3.6"	4.0"	0.0	-5.2"	-8.8"
TRAJ: 200 yds. zero	-.8"	5.0"	6.8"	4.3"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.8"	8.4"	6.6"	2.8"	0.0
VELOCITY (fps)	1600	1523	1450	1382	1339	1318
ENERGY (ft.-lbs.)	790	716	649	589	553	536
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.3"	-20.9"	-26.4"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-6.8"	-14.2"	-19.0"
TRAJ: 150 m. zero	-.8"	4.1"	4.5"	0.0	-5.9"	-10.0"
TRAJ: 200 yds. zero	-.8"	5.7"	7.8"	4.8"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	6.6"	9.5"	7.5"	3.2"	0.0

**7MM CALIBER (.284" Dia.) 154 GRAIN SPIRE POINT
SECTIONAL DENSITY: .273 BALLISTIC COEFFICIENT: .433**

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2300	2197	2096	1998	1935	1903
ENERGY (ft.-lbs.)	1809	1650	1502	1365	1280	1238
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.1"	-8.9"	-11.4"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.0"	-6.4"	-8.7"
TRAJ: 150 m. zero	-.8"	1.7"	2.0"	0.0	-2.7"	-4.6"
TRAJ: 200 yds. zero	-.8"	2.4"	3.5"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.8"	4.3"	3.5"	1.5"	0.0
VELOCITY (fps)	2200	2099	2001	1906	1845	1813
ENERGY (ft.-lbs.)	1655	1507	1369	1242	1163	1124
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.7"	-10.0"	-12.7"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.4"	-7.1"	-9.6"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.0"	-5.1"
TRAJ: 200 yds. zero	-.8"	2.7"	3.9"	2.5"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.2"	4.8"	3.8"	1.7"	0.0
VELOCITY (fps)	2100	2002	1906	1814	1755	1725
ENERGY (ft.-lbs.)	1508	1370	1243	1125	1053	1017
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.4"	-11.2"	-14.3"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.8"	-7.9"	-10.7"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.3"	-5.7"
TRAJ: 200 yds. zero	-.8"	3.1"	4.3"	2.7"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.6"	5.3"	4.2"	1.8"	0.0
VELOCITY (fps)	2000	1905	1812	1723	1666	1638
ENERGY (ft.-lbs.)	1368	1240	1123	1015	949	917
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.3"	-12.6"	-16.0"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.2"	-8.8"	-11.9"
TRAJ: 150 m. zero	-.8"	2.4"	2.8"	0.0	-3.7"	-6.3"
TRAJ: 200 yds. zero	-.8"	3.5"	4.8"	3.1"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	4.0"	5.9"	4.7"	2.0"	0.0
VELOCITY (fps)	1900	1808	1719	1633	1579	1552
ENERGY (ft.-lbs.)	1234	1117	1010	912	853	823
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.3"	-14.3"	-18.1"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.7"	-9.9"	-13.3"
TRAJ: 150 m. zero	-.8"	2.8"	3.1"	0.0	-4.2"	-7.0"
TRAJ: 200 yds. zero	-.8"	3.9"	5.4"	3.4"	0.0	-2.5"
TRAJ: 200 m. zero	-.8"	4.5"	6.7"	5.3"	2.3"	0.0
VELOCITY (fps)	1800	1711	1626	1545	1493	1467
ENERGY (ft.-lbs.)	1108	1001	904	816	762	736
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.4"	-16.2"	-20.5"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.3"	-11.1"	-15.0"
TRAJ: 150 m. zero	-.8"	3.1"	3.5"	0.0	-4.7"	-7.9"
TRAJ: 200 yds. zero	-.8"	4.4"	6.1"	3.8"	0.0	-2.8"
TRAJ: 200 m. zero	-.8"	5.1"	7.5"	5.9"	2.5"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1700	1615	1534	1458	1410	1385
ENERGY (ft.-lbs.)	988	892	805	726	679	656
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-10.8"	-18.4"	-23.3"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.0"	-12.6"	-16.9"
TRAJ: 150 m. zero	-.8"	3.6"	4.0"	0.0	-5.3"	-8.9"
TRAJ: 200 yds. zero	-.8"	5.0"	6.9"	4.3"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.8"	8.5"	6.7"	2.9"	0.0
VELOCITY (fps)	1600	1520	1444	1373	1328	1306
ENERGY (ft.-lbs.)	875	790	713	644	603	583
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.4"	-21.1"	-26.6"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-6.8"	-14.3"	-19.2"
TRAJ: 150 m. zero	-.8"	4.1"	4.6"	0.0	-6.0"	-10.1"
TRAJ: 200 yds. zero	-.8"	5.8"	7.8"	4.9"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	6.6"	9.6"	7.6"	3.2"	0.0
VELOCITY (fps)	1500	1425	1355	1290	1251	1231
ENERGY (ft.-lbs.)	769	694	628	569	535	518
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.3"	-24.2"	-30.5"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-7.8"	-16.3"	-21.9"
TRAJ: 150 m. zero	-.8"	4.8"	5.2"	0.0	-6.8"	-11.5"
TRAJ: 200 yds. zero	-.8"	6.6"	8.9"	5.6"	0.0	-4.0"
TRAJ: 200 m. zero	-.8"	7.6"	10.9"	8.6"	3.7"	0.0

7MM CALIBER (.284" Dia.) 162 GRAIN BOAT TAIL HOLLOW POINT MATCH
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .534

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2200	2118	2038	1959	1909	1883
ENERGY (ft.-lbs.)	1741	1613	1494	1381	1311	1275
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.5"	-9.6"	-12.3"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.3"	-6.9"	-9.2"
TRAJ: 150 m. zero	-.8"	1.8"	2.2"	0.0	-2.9"	-4.9"
TRAJ: 200 yds. zero	-.8"	2.6"	3.8"	2.4"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	3.1"	4.6"	3.7"	1.6"	0.0
VELOCITY (fps)	2100	2020	1942	1866	1817	1792
ENERGY (ft.-lbs.)	1586	1468	1357	1253	1188	1155
TRAJ: 50 m. zero	-.8"	0.0	-1.7"	-6.2"	-10.8"	-13.7"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.6"	-7.6"	-10.2"
TRAJ: 150 m. zero	-.8"	2.1"	2.4"	0.0	-3.2"	-5.4"
TRAJ: 200 yds. zero	-.8"	3.0"	4.2"	2.6"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.4"	5.1"	4.1"	1.7"	0.0
VELOCITY (fps)	2000	1923	1847	1773	1726	1702
ENERGY (ft.-lbs.)	1439	1329	1227	1131	1072	1042
TRAJ: 50 m. zero	-.8"	0.0	-2.0"	-7.1"	-12.2"	-15.4"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.1"	-8.5"	-11.4"
TRAJ: 150 m. zero	-.8"	2.4"	2.7"	0.0	-3.6"	-6.0"
TRAJ: 200 yds. zero	-.8"	3.3"	4.6"	2.9"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.9"	5.7"	4.5"	1.9"	0.0
VELOCITY (fps)	1900	1825	1752	1681	1636	1613
ENERGY (ft.-lbs.)	1298	1198	1104	1017	963	936
TRAJ: 50 m. zero	-.8"	0.0	-2.3"	-8.0"	-13.8"	-17.4"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.5"	-9.5"	-12.8"
TRAJ: 150 m. zero	-.8"	2.7"	3.0"	0.0	-4.0"	-6.7"
TRAJ: 200 yds. zero	-.8"	3.8"	5.2"	3.3"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.4"	6.4"	5.0"	2.2"	0.0
VELOCITY (fps)	1800	1728	1658	1590	1547	1525
ENERGY (ft.-lbs.)	1165	1074	989	910	861	837
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.1"	-15.6"	-19.7"
TRAJ: 100 m. zero	-.8"	1.3"	0.0	-5.1"	-10.7"	-14.4"
TRAJ: 150 m. zero	-.8"	3.0"	3.4"	0.0	-4.5"	-7.5"
TRAJ: 200 yds. zero	-.8"	4.3"	5.9"	3.7"	0.0	-2.6"
TRAJ: 200 m. zero	-.8"	4.9"	7.2"	5.6"	2.4"	0.0
VELOCITY (fps)	1700	1631	1564	1501	1460	1440
ENERGY (ft.-lbs.)	1039	957	880	810	767	745
TRAJ: 50 m. zero	-.8"	0.0	-3.1"	-10.5"	-17.8"	-22.4"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-5.8"	-12.1"	-16.2"
TRAJ: 150 m. zero	-.8"	3.5"	3.9"	0.0	-5.0"	-8.5"
TRAJ: 200 yds. zero	-.8"	4.9"	6.6"	4.1"	0.0	-3.0"
TRAJ: 200 m. zero	-.8"	5.6"	8.1"	6.4"	2.7"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1600	1535	1472	1412	1375	1356
ENERGY (ft.-lbs.)	921	847	779	717	680	661
TRAJ: 50 m. zero	-.8"	0.0	-3.6"	-12.0"	-20.4"	-25.6"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-6.6"	-13.8"	-18.4"
TRAJ: 150 m. zero	-.8"	4.0"	4.4"	0.0	-5.7"	-9.6"
TRAJ: 200 yds. zero	-.8"	5.6"	7.5"	4.7"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	6.4"	9.2"	7.2"	3.1"	0.0
VELOCITY (fps)	1500	1439	1381	1326	1292	1275
ENERGY (ft.-lbs.)	809	745	686	633	601	585
TRAJ: 50 m. zero	-.8"	0.0	-4.2"	-13.9"	-23.4"	-29.5"
TRAJ: 100 m. zero	-.8"	2.1"	0.0	-7.6"	-15.7"	-21.0"
TRAJ: 150 m. zero	-.8"	4.6"	5.0"	0.0	-6.5"	-10.9"
TRAJ: 200 yds. zero	-.8"	6.4"	8.6"	5.3"	0.0	-3.8"
TRAJ: 200 m. zero	-.8"	7.4"	10.5"	8.2"	3.5"	0.0
VELOCITY (fps)	1400	1344	1292	1243	1214	1199
ENERGY (ft.-lbs.)	705	650	600	556	530	517
TRAJ: 50 m. zero	-.8"	0.0	-4.9"	-16.1"	-27.1"	-34.0"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-8.7"	-18.1"	-24.1"
TRAJ: 150 m. zero	-.8"	5.4"	5.8"	0.0	-7.4"	-12.5"
TRAJ: 200 yds. zero	-.8"	7.4"	9.9"	6.1"	0.0	-4.4"
TRAJ: 200 m. zero	-.8"	8.5"	12.1"	9.4"	4.0"	0.0

7MM CALIBER (.284" Dia.) 162 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .287 BALLISTIC COEFFICIENT: .514

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2200	2115	2032	1950	1898	1871
ENERGY (ft.-lbs.)	1741	1609	1484	1368	1296	1259
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.6"	-9.7"	-12.3"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.3"	-6.9"	-9.3"
TRAJ: 150 m. zero	-.8"	1.9"	2.2"	0.0	-2.9"	-4.9"
TRAJ: 200 yds. zero	-.8"	2.7"	3.8"	2.4"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	3.1"	4.6"	3.7"	1.6"	0.0
VELOCITY (fps)	2100	2017	1936	1857	1807	1781
ENERGY (ft.-lbs.)	1586	1463	1348	1241	1174	1140
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.3"	-10.9"	-13.8"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.6"	-7.7"	-10.3"
TRAJ: 150 m. zero	-.8"	2.1"	2.4"	0.0	-3.2"	-5.4"
TRAJ: 200 yds. zero	-.8"	3.0"	4.2"	2.6"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.5"	5.2"	4.1"	1.8"	0.0
VELOCITY (fps)	2000	1920	1841	1765	1716	1691
ENERGY (ft.-lbs.)	1439	1325	1219	1120	1059	1029
TRAJ: 50 m. zero	-.8"	0.0	-2.0"	-7.1"	-12.3"	-15.5"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.1"	-8.6"	-11.5"
TRAJ: 150 m. zero	-.8"	2.4"	2.7"	0.0	-3.6"	-6.1"
TRAJ: 200 yds. zero	-.8"	3.3"	4.7"	2.9"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.9"	5.7"	4.5"	1.9"	0.0
VELOCITY (fps)	1900	1822	1747	1673	1627	1603
ENERGY (ft.-lbs.)	1298	1194	1097	1007	952	924
TRAJ: 50 m. zero	-.8"	0.0	-2.3"	-8.1"	-13.8"	-17.5"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.6"	-9.6"	-12.9"
TRAJ: 150 m. zero	-.8"	2.7"	3.0"	0.0	-4.0"	-6.8"
TRAJ: 200 yds. zero	-.8"	3.8"	5.2"	3.3"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.4"	6.4"	5.1"	2.2"	0.0
VELOCITY (fps)	1800	1725	1653	1583	1538	1516
ENERGY (ft.-lbs.)	1165	1070	982	901	851	826
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.2"	-15.7"	-19.8"
TRAJ: 100 m. zero	-.8"	1.3"	0.0	-5.2"	-10.8"	-14.5"
TRAJ: 150 m. zero	-.8"	3.1"	3.4"	0.0	-4.5"	-7.6"
TRAJ: 200 yds. zero	-.8"	4.3"	5.9"	3.7"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	5.0"	7.2"	5.7"	2.4"	0.0
VELOCITY (fps)	1700	1628	1559	1493	1452	1430
ENERGY (ft.-lbs.)	1039	954	875	802	758	736
TRAJ: 50 m. zero	-.8"	0.0	-3.1"	-10.5"	-17.9"	-22.6"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-5.8"	-12.2"	-16.3"
TRAJ: 150 m. zero	-.8"	3.5"	3.9"	0.0	-5.1"	-8.5"
TRAJ: 200 yds. zero	-.8"	4.9"	6.7"	4.2"	0.0	-3.0"
TRAJ: 200 m. zero	-.8"	5.6"	8.2"	6.4"	2.7"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1600	1532	1467	1406	1367	1347
ENERGY (ft.-lbs.)	921	844	774	711	672	653
TRAJ: 50 m. zero	-.8"	0.0	-3.6"	-12.1"	-20.5"	-25.8"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-6.6"	-13.8"	-18.5"
TRAJ: 150 m. zero	-.8"	4.0"	4.4"	0.0	-5.7"	-9.7"
TRAJ: 200 yds. zero	-.8"	5.6"	7.6"	4.7"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	6.4"	9.3"	7.3"	3.1"	0.0
VELOCITY (fps)	1500	1437	1377	1320	1285	1268
ENERGY (ft.-lbs.)	809	742	682	627	594	578
TRAJ: 50 m. zero	-.8"	0.0	-4.2"	-13.9"	-23.6"	-29.6"
TRAJ: 100 m. zero	-.8"	2.1"	0.0	-7.6"	-15.8"	-21.2"
TRAJ: 150 m. zero	-.8"	4.6"	5.1"	0.0	-6.6"	-11.0"
TRAJ: 200 yds. zero	-.8"	6.4"	8.6"	5.4"	0.0	-3.9"
TRAJ: 200 m. zero	-.8"	7.4"	10.6"	8.3"	3.5"	0.0
VELOCITY (fps)	1400	1342	1288	1238	1207	1192
ENERGY (ft.-lbs.)	705	648	597	551	524	511
TRAJ: 50 m. zero	-.8"	0.0	-5.0"	-16.2"	-27.2"	-34.2"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-8.7"	-18.2"	-24.3"
TRAJ: 150 m. zero	-.8"	5.4"	5.8"	0.0	-7.5"	-12.6"
TRAJ: 200 yds. zero	-.8"	7.4"	9.9"	6.2"	0.0	-4.4"
TRAJ: 200 m. zero	-.8"	8.6"	12.1"	9.5"	4.0"	0.0

7MM CALIBER (.284" Dia.) 175 GRAIN SPIRE POINT
SECTIONAL DENSITY: .310 BALLISTIC COEFFICIENT: .462

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2100	2008	1918	1831	1776	1747
ENERGY (ft.-lbs.)	1713	1566	1430	1303	1225	1186
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.4"	-11.1"	-14.1"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.7"	-7.8"	-10.5"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.3"	-5.6"
TRAJ: 200 yds. zero	-.8"	3.0"	4.3"	2.7"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.5"	5.3"	4.2"	1.8"	0.0
VELOCITY (fps)	2000	1911	1824	1740	1686	1659
ENERGY (ft.-lbs.)	1554	1418	1292	1176	1105	1069
TRAJ: 50 m. zero	-.8"	0.0	-2.0"	-7.2"	-12.5"	-15.8"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.1"	-8.7"	-11.7"
TRAJ: 150 m. zero	-.8"	2.4"	2.8"	0.0	-3.7"	-6.2"
TRAJ: 200 yds. zero	-.8"	3.4"	4.8"	3.0"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	4.0"	5.9"	4.7"	2.0"	0.0
VELOCITY (fps)	1900	1814	1730	1649	1598	1572
ENERGY (ft.-lbs.)	1403	1278	1163	1057	992	960
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.2"	-14.1"	-17.9"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.7"	-9.8"	-13.1"
TRAJ: 150 m. zero	-.8"	2.7"	3.1"	0.0	-4.1"	-6.9"
TRAJ: 200 yds. zero	-.8"	3.9"	5.3"	3.4"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.5"	6.6"	5.2"	2.2"	0.0
VELOCITY (fps)	1800	1717	1637	1560	1511	1486
ENERGY (ft.-lbs.)	1259	1145	1041	945	887	858
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.3"	-16.0"	-20.2"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.2"	-11.0"	-14.8"
TRAJ: 150 m. zero	-.8"	3.1"	3.5"	0.0	-4.6"	-7.8"
TRAJ: 200 yds. zero	-.8"	4.4"	6.0"	3.8"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	5.1"	7.4"	5.8"	2.5"	0.0
VELOCITY (fps)	1700	1620	1544	1472	1426	1403
ENERGY (ft.-lbs.)	1123	1020	927	841	790	765
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-10.7"	-18.2"	-23.0"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-5.9"	-12.4"	-16.7"
TRAJ: 150 m. zero	-.8"	3.6"	4.0"	0.0	-5.2"	-8.8"
TRAJ: 200 yds. zero	-.8"	5.0"	6.8"	4.3"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.7"	8.3"	6.6"	2.8"	0.0
VELOCITY (fps)	1600	1525	1453	1386	1344	1322
ENERGY (ft.-lbs.)	995	903	820	746	701	679
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.3"	-20.8"	-26.3"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-6.8"	-14.1"	-18.9"
TRAJ: 150 m. zero	-.8"	4.1"	4.5"	0.0	-5.9"	-9.9"
TRAJ: 200 yds. zero	-.8"	5.7"	7.7"	4.8"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	6.6"	9.5"	7.4"	3.2"	0.0

**Hornady
HANDBOOK**

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1500	1430	1364	1302	1264	1245
ENERGY (ft.-lbs.)	874	794	722	659	621	603
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.2"	-24.0"	-30.2"
TRAJ: 100 m. zero	-.8"	2.1"	0.0	-7.7"	-16.1"	-21.6"
TRAJ: 150 m. zero	-.8"	4.7"	5.2"	0.0	-6.7"	-11.3"
TRAJ: 200 yds. zero	-.8"	6.5"	8.8"	5.5"	0.0	-4.0"
TRAJ: 200 m. zero	-.8"	7.5"	10.8"	8.5"	3.6"	0.0
VELOCITY (fps)	1400	1336	1276	1222	1189	1173
ENERGY (ft.-lbs.)	761	693	633	580	550	535
TRAJ: 50 m. zero	-.8"	0.0	-5.0"	-16.4"	-27.7"	-34.8"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-8.9"	-18.5"	-24.7"
TRAJ: 150 m. zero	-.8"	5.5"	5.9"	0.0	-7.6"	-12.9"
TRAJ: 200 yds. zero	-.8"	7.6"	10.1"	6.3"	0.0	-4.5"
TRAJ: 200 m. zero	-.8"	8.7"	12.4"	9.7"	4.1"	0.0
VELOCITY (fps)	1300	1244	1192	1147	1120	1107
ENERGY (ft.-lbs.)	657	601	552	511	487	476
TRAJ: 50 m. zero	-.8"	0.0	-5.9"	-19.1"	-32.1"	-40.3"
TRAJ: 100 m. zero	-.8"	3.0"	0.0	-10.3"	-21.3"	-28.4"
TRAJ: 150 m. zero	-.8"	6.4"	6.8"	0.0	-8.8"	-14.7"
TRAJ: 200 yds. zero	-.8"	8.8"	11.6"	7.2"	0.0	-5.2"
TRAJ: 200 m. zero	-.8"	10.1"	14.2"	11.1"	4.7"	0.0

30 CALIBER (.308" Dia.) 110 GRAIN SPIRE POINT
SECTIONAL DENSITY: .166 BALLISTIC COEFFICIENT: .256

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2800	2606	2420	2242	2128	2071
ENERGY (ft.-lbs.)	1915	1658	1430	1227	1106	1047
TRAJ: 50 m. zero	-.8"	0.0	-0.7"	-3.2"	-6.0"	-7.8"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.1"	-4.7"	-6.4"
TRAJ: 150 m. zero	-.8"	1.1"	1.4"	0.0	-2.0"	-3.5"
TRAJ: 200 yds. zero	-.8"	1.6"	2.5"	1.7"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.0"	3.2"	2.6"	1.2"	0.0
VELOCITY (fps)	2700	2510	2328	2154	2043	1987
ENERGY (ft.-lbs.)	1780	1539	1324	1133	1019	964
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.6"	-6.6"	-8.6"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.3"	-5.1"	-6.9"
TRAJ: 150 m. zero	-.8"	1.2"	1.6"	0.0	-2.2"	-3.8"
TRAJ: 200 yds. zero	-.8"	1.8"	2.8"	1.8"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.2"	3.5"	2.9"	1.3"	0.0
VELOCITY (fps)	2600	2414	2236	2066	1958	1903
ENERGY (ft.-lbs.)	1651	1423	1221	1042	936	884
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.1"	-7.4"	-9.6"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.6"	-5.6"	-7.6"
TRAJ: 150 m. zero	-.8"	1.4"	1.7"	0.0	-2.4"	-4.2"
TRAJ: 200 yds. zero	-.8"	2.0"	3.0"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.4"	3.8"	3.1"	1.4"	0.0
VELOCITY (fps)	2500	2318	2144	1978	1873	1820
ENERGY (ft.-lbs.)	1526	1313	1123	955	856	808
TRAJ: 50 m. zero	-.8"	0.0	-1.1"	-4.5"	-8.2"	-10.6"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-6.1"	-8.3"
TRAJ: 150 m. zero	-.8"	1.5"	1.9"	0.0	-2.7"	-4.6"
TRAJ: 200 yds. zero	-.8"	2.2"	3.3"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.7"	4.2"	3.4"	1.5"	0.0
VELOCITY (fps)	2400	2223	2053	1890	1788	1737
ENERGY (ft.-lbs.)	1407	1206	1029	873	781	737
TRAJ: 50 m. zero	-.8"	0.0	-1.3"	-5.1"	-9.1"	-11.8"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.1"	-6.7"	-9.2"
TRAJ: 150 m. zero	-.8"	1.7"	2.1"	0.0	-2.9"	-5.0"
TRAJ: 200 yds. zero	-.8"	2.5"	3.7"	2.4"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	2.9"	4.6"	3.7"	1.6"	0.0
VELOCITY (fps)	2300	2127	1961	1804	1705	1655
ENERGY (ft.-lbs.)	1292	1104	939	794	710	669
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.7"	-10.2"	-13.1"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.5"	-7.4"	-10.1"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.2"	-5.5"
TRAJ: 200 yds. zero	-.8"	2.8"	4.1"	2.6"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.3"	5.1"	4.1"	1.8"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2200	2031	1870	1718	1623	1575
ENERGY (ft.-lbs.)	1182	1007	854	721	643	606
TRAJ: 50 m. zero	-.8"	0.0	-1.7"	-6.4"	-11.4"	-14.7"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.8"	-8.3"	-11.2"
TRAJ: 150 m. zero	-.8"	2.1"	2.6"	0.0	-3.6"	-6.1"
TRAJ: 200 yds. zero	-.8"	3.1"	4.5"	2.9"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	3.7"	5.6"	4.6"	2.0"	0.0
VELOCITY (fps)	2100	1936	1780	1633	1542	1497
ENERGY (ft.-lbs.)	1077	915	773	651	581	547
TRAJ: 50 m. zero	-.8"	0.0	-2.0"	-7.2"	-12.8"	-16.4"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.3"	-9.2"	-12.5"
TRAJ: 150 m. zero	-.8"	2.4"	2.9"	0.0	-4.0"	-6.8"
TRAJ: 200 yds. zero	-.8"	3.5"	5.0"	3.2"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.1"	6.2"	5.1"	2.2"	0.0
VELOCITY (fps)	2000	1841	1690	1550	1464	1421
ENERGY (ft.-lbs.)	977	827	697	586	523	493
TRAJ: 50 m. zero	-.8"	0.0	-2.3"	-8.2"	-14.4"	-18.5"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.8"	-10.2"	-13.9"
TRAJ: 150 m. zero	-.8"	2.7"	3.2"	0.0	-4.4"	-7.5"
TRAJ: 200 yds. zero	-.8"	3.9"	5.6"	3.6"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	4.6"	7.0"	5.6"	2.5"	0.0
VELOCITY (fps)	1900	1746	1602	1468	1387	1348
ENERGY (ft.-lbs.)	882	744	626	526	470	444
TRAJ: 50 m. zero	-.8"	0.0	-2.6"	-9.3"	-16.3"	-20.8"
TRAJ: 100 m. zero	-.8"	1.3"	0.0	-5.4"	-11.5"	-15.6"
TRAJ: 150 m. zero	-.8"	3.1"	3.6"	0.0	-4.9"	-8.4"
TRAJ: 200 yds. zero	-.8"	4.4"	6.3"	4.0"	0.0	-3.0"
TRAJ: 200 m. zero	-.8"	5.2"	7.8"	6.3"	2.8"	0.0
VELOCITY (fps)	1800	1652	1515	1389	1315	1278
ENERGY (ft.-lbs.)	791	666	560	471	422	399
TRAJ: 50 m. zero	-.8"	0.0	-3.0"	-10.6"	-18.4"	-23.5"
TRAJ: 100 m. zero	-.8"	1.5"	0.0	-6.0"	-12.9"	-17.5"
TRAJ: 150 m. zero	-.8"	3.5"	4.0"	0.0	-5.5"	-9.4"
TRAJ: 200 yds. zero	-.8"	5.0"	7.1"	4.5"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	5.9"	8.7"	7.1"	3.1"	0.0

30 CALIBER (.308" Dia.) 130 GRAIN SPIRE POINT OR SINGLE SHOT PISTOL
SECTIONAL DENSITY: .196 BALLISTIC COEFFICIENT: .295

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2700	2535	2376	2222	2124	2074
ENERGY (ft.-lbs.)	2104	1854	1629	1425	1302	1241
TRAJ: 50 m. zero	-.8"	0.0	-0.8"	-3.5"	-6.4"	-8.3"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.3"	-4.9"	-6.6"
TRAJ: 150 m. zero	-.8"	1.2"	1.5"	0.0	-2.1"	-3.6"
TRAJ: 200 yds. zero	-.8"	1.7"	2.7"	1.7"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.1"	3.3"	2.7"	1.2"	0.0
VELOCITY (fps)	2600	2438	2283	2132	2037	1988
ENERGY (ft.-lbs.)	1951	1716	1504	1312	1197	1141
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.9"	-7.1"	-9.1"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.5"	-5.3"	-7.2"
TRAJ: 150 m. zero	-.8"	1.3"	1.6"	0.0	-2.3"	-3.9"
TRAJ: 200 yds. zero	-.8"	1.9"	2.9"	1.9"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.3"	3.6"	3.0"	1.3"	0.0
VELOCITY (fps)	2500	2342	2190	2043	1950	1902
ENERGY (ft.-lbs.)	1804	1583	1384	1204	1097	1044
TRAJ: 50 m. zero	-.8"	0.0	-1.1"	-4.4"	-7.8"	-10.1"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.7"	-5.8"	-7.9"
TRAJ: 150 m. zero	-.8"	1.5"	1.8"	0.0	-2.5"	-4.3"
TRAJ: 200 yds. zero	-.8"	2.1"	3.2"	2.1"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.5"	4.0"	3.2"	1.4"	0.0
VELOCITY (fps)	2400	2246	2097	1954	1863	1817
ENERGY (ft.-lbs.)	1662	1455	1269	1102	1002	953
TRAJ: 50 m. zero	-.8"	0.0	-1.3"	-4.9"	-8.7"	-11.3"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-3.0"	-6.4"	-8.7"
TRAJ: 150 m. zero	-.8"	1.6"	2.0"	0.0	-2.8"	-4.7"
TRAJ: 200 yds. zero	-.8"	2.4"	3.5"	2.3"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	2.8"	4.4"	3.5"	1.5"	0.0

Hornady HANDBOOK

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2300	2149	2004	1865	1777	1733
ENERGY (ft.-lbs.)	1527	1333	1159	1004	911	866
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.5"	-9.8"	-12.5"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.3"	-7.1"	-9.6"
TRAJ: 150 m. zero	-.8"	1.8"	2.2"	0.0	-3.1"	-5.2"
TRAJ: 200 yds. zero	-.8"	2.7"	3.9"	2.5"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.1"	4.8"	3.9"	1.7"	0.0
VELOCITY (fps)	2200	2053	1912	1777	1692	1649
ENERGY (ft.-lbs.)	1397	1216	1055	911	826	785
TRAJ: 50 m. zero	-.8"	0.0	-1.7"	-6.2"	-10.9"	-14.0"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.7"	-7.9"	-10.7"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.4"	-5.8"
TRAJ: 200 yds. zero	-.8"	3.0"	4.3"	2.8"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.5"	5.3"	4.3"	1.9"	0.0
VELOCITY (fps)	2100	1957	1820	1690	1608	1567
ENERGY (ft.-lbs.)	1273	1105	956	824	747	709
TRAJ: 50 m. zero	-.8"	0.0	-1.9"	-7.0"	-12.3"	-15.7"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.1"	-8.7"	-11.8"
TRAJ: 150 m. zero	-.8"	2.3"	2.7"	0.0	-3.8"	-6.4"
TRAJ: 200 yds. zero	-.8"	3.4"	4.8"	3.1"	0.0	-2.3"
TRAJ: 200 m. zero	-.8"	3.9"	5.9"	4.8"	2.1"	0.0
VELOCITY (fps)	2000	1861	1729	1604	1526	1487
ENERGY (ft.-lbs.)	1154	1000	863	743	672	639
TRAJ: 50 m. zero	-.8"	0.0	-2.2"	-7.9"	-13.8"	-17.6"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.6"	-9.8"	-13.2"
TRAJ: 150 m. zero	-.8"	2.6"	3.1"	0.0	-4.2"	-7.1"
TRAJ: 200 yds. zero	-.8"	3.8"	5.3"	3.4"	0.0	-2.5"
TRAJ: 200 m. zero	-.8"	4.4"	6.6"	5.3"	2.3"	0.0
VELOCITY (fps)	1900	1766	1639	1520	1446	1410
ENERGY (ft.-lbs.)	1042	900	775	667	604	574
TRAJ: 50 m. zero	-.8"	0.0	-2.5"	-9.0"	-15.6"	-19.9"
TRAJ: 100 m. zero	-.8"	1.3"	0.0	-5.1"	-10.9"	-14.8"
TRAJ: 150 m. zero	-.8"	3.0"	3.4"	0.0	-4.7"	-7.9"
TRAJ: 200 yds. zero	-.8"	4.3"	6.0"	3.8"	0.0	-2.8"
TRAJ: 200 m. zero	-.8"	5.0"	7.4"	6.0"	2.6"	0.0
VELOCITY (fps)	1800	1671	1550	1437	1369	1335
ENERGY (ft.-lbs.)	935	806	693	596	541	514
TRAJ: 50 m. zero	-.8"	0.0	-2.9"	-10.2"	-17.7"	-22.5"
TRAJ: 100 m. zero	-.8"	1.5"	0.0	-5.8"	-12.3"	-16.6"
TRAJ: 150 m. zero	-.8"	3.4"	3.9"	0.0	-5.2"	-8.9"
TRAJ: 200 yds. zero	-.8"	4.8"	6.7"	4.3"	0.0	-3.2"
TRAJ: 200 m. zero	-.8"	5.6"	8.3"	6.7"	2.9"	0.0

30 CALIBER (.308" Dia.) 150 GRAIN SPIRE POINT SECTIONAL DENSITY: .226 BALLISTIC COEFFICIENT: .338

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2600	2459	2322	2189	2104	2061
ENERGY (ft.-lbs.)	2251	2013	1795	1596	1474	1414
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.8"	-6.8"	-8.8"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.4"	-5.1"	-6.9"
TRAJ: 150 m. zero	-.8"	1.3"	1.6"	0.0	-2.2"	-3.8"
TRAJ: 200 yds. zero	-.8"	1.9"	2.8"	1.8"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.2"	3.5"	2.8"	1.2"	0.0
VELOCITY (fps)	2500	2362	2228	2098	2015	1973
ENERGY (ft.-lbs.)	2081	1857	1653	1466	1353	1296
TRAJ: 50 m. zero	-.8"	0.0	-1.1"	-4.2"	-7.6"	-9.7"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.6"	-5.6"	-7.6"
TRAJ: 150 m. zero	-.8"	1.4"	1.8"	0.0	-2.4"	-4.1"
TRAJ: 200 yds. zero	-.8"	2.1"	3.1"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.4"	3.8"	3.1"	1.3"	0.0
VELOCITY (fps)	2400	2265	2134	2008	1927	1886
ENERGY (ft.-lbs.)	1918	1708	1517	1342	1236	1184
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.7"	-8.4"	-10.8"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.9"	-6.2"	-8.4"
TRAJ: 150 m. zero	-.8"	1.6"	1.9"	0.0	-2.7"	-4.5"
TRAJ: 200 yds. zero	-.8"	2.3"	3.4"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.7"	4.2"	3.4"	1.5"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2300	2168	2040	1917	1839	1799
ENERGY (ft.-lbs.)	1762	1565	1386	1224	1126	1078
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.3"	-9.4"	-12.1"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.2"	-6.8"	-9.2"
TRAJ: 150 m. zero	-.8"	1.8"	2.1"	0.0	-2.9"	-5.0"
TRAJ: 200 yds. zero	-.8"	2.6"	3.7"	2.4"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.0"	4.6"	3.7"	1.6"	0.0
VELOCITY (fps)	2200	2071	1947	1828	1752	1713
ENERGY (ft.-lbs.)	1612	1429	1262	1112	1022	978
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-6.0"	-10.5"	-13.5"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.6"	-7.6"	-10.2"
TRAJ: 150 m. zero	-.8"	2.0"	2.4"	0.0	-3.2"	-5.5"
TRAJ: 200 yds. zero	-.8"	2.9"	4.1"	2.7"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.4"	5.1"	4.1"	1.8"	0.0
VELOCITY (fps)	2100	1975	1854	1739	1666	1629
ENERGY (ft.-lbs.)	1469	1299	1145	1007	924	883
TRAJ: 50 m. zero	-.8"	0.0	-1.9"	-6.8"	-11.8"	-15.1"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-4.0"	-8.4"	-11.4"
TRAJ: 150 m. zero	-.8"	2.3"	2.6"	0.0	-3.6"	-6.1"
TRAJ: 200 yds. zero	-.8"	3.2"	4.6"	2.9"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	3.8"	5.7"	4.6"	2.0"	0.0
VELOCITY (fps)	2000	1878	1762	1651	1581	1546
ENERGY (ft.-lbs.)	1332	1175	1034	907	832	796
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.6"	-13.3"	-17.0"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.4"	-9.4"	-12.7"
TRAJ: 150 m. zero	-.8"	2.5"	2.9"	0.0	-4.0"	-6.8"
TRAJ: 200 yds. zero	-.8"	3.6"	5.1"	3.3"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.2"	6.3"	5.1"	2.2"	0.0
VELOCITY (fps)	1900	1782	1670	1564	1498	1465
ENERGY (ft.-lbs.)	1202	1058	929	815	747	714
TRAJ: 50 m. zero	-.8"	0.0	-2.5"	-8.7"	-15.0"	-19.1"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-5.0"	-10.5"	-14.2"
TRAJ: 150 m. zero	-.8"	2.9"	3.3"	0.0	-4.5"	-7.6"
TRAJ: 200 yds. zero	-.8"	4.1"	5.7"	3.7"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	4.8"	7.1"	5.7"	2.5"	0.0
VELOCITY (fps)	1800	1687	1580	1479	1417	1386
ENERGY (ft.-lbs.)	1079	948	831	729	669	640
TRAJ: 50 m. zero	-.8"	0.0	-2.9"	-9.9"	-17.0"	-21.7"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.6"	-11.8"	-15.9"
TRAJ: 150 m. zero	-.8"	3.3"	3.7"	0.0	-5.0"	-8.5"
TRAJ: 200 yds. zero	-.8"	4.7"	6.5"	4.1"	0.0	-3.0"
TRAJ: 200 m. zero	-.8"	5.4"	8.0"	6.4"	2.8"	0.0
VELOCITY (fps)	1700	1592	1491	1396	1339	1310
ENERGY (ft.-lbs.)	962	844	740	649	597	572
TRAJ: 50 m. zero	-.8"	0.0	-3.3"	-11.3"	-19.4"	-24.6"
TRAJ: 100 m. zero	-.8"	1.7"	0.0	-6.3"	-13.4"	-18.0"
TRAJ: 150 m. zero	-.8"	3.8"	4.2"	0.0	-5.6"	-9.5"
TRAJ: 200 yds. zero	-.8"	5.3"	7.3"	4.6"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	6.2"	9.0"	7.2"	3.1"	0.0
VELOCITY (fps)	1600	1498	1403	1316	1264	1239
ENERGY (ft.-lbs.)	853	747	656	577	532	511
TRAJ: 50 m. zero	-.8"	0.0	-3.8"	-13.0"	-22.2"	-28.1"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.2"	-15.1"	-20.4"
TRAJ: 150 m. zero	-.8"	4.3"	4.8"	0.0	-6.4"	-10.8"
TRAJ: 200 yds. zero	-.8"	6.1"	8.3"	5.2"	0.0	-3.8"
TRAJ: 200 m. zero	-.8"	7.0"	10.2"	8.1"	3.5"	0.0

30 CALIBER (.308" Dia.) 150 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .226 BALLISTIC COEFFICIENT: .349

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2600	2463	2330	2201	2119	2077
ENERGY (ft.-lbs.)	2251	2020	1808	1614	1495	1436
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.7"	-6.8"	-8.7"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.4"	-5.1"	-6.9"
TRAJ: 150 m. zero	-.8"	1.2"	1.6"	0.0	-2.2"	-3.7"
TRAJ: 200 yds. zero	-.8"	1.8"	2.8"	1.8"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.2"	3.4"	2.8"	1.2"	0.0

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RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2500	2366	2236	2110	2030	1989
ENERGY (ft.-lbs.)	2081	1864	1665	1483	1372	1317
TRAJ: 50 m. zero	-.8"	0.0	-1.1"	-4.2"	-7.5"	-9.7"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.6"	-5.6"	-7.6"
TRAJ: 150 m. zero	-.8"	1.4"	1.7"	0.0	-2.4"	-4.1"
TRAJ: 200 yds. zero	-.8"	2.1"	3.1"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.4"	3.8"	3.1"	1.3"	0.0
VELOCITY (fps)	2400	2269	2142	2019	1941	1901
ENERGY (ft.-lbs.)	1918	1715	1528	1358	1255	1203
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.7"	-8.4"	-10.7"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.9"	-6.1"	-8.3"
TRAJ: 150 m. zero	-.8"	1.6"	1.9"	0.0	-2.6"	-4.5"
TRAJ: 200 yds. zero	-.8"	2.3"	3.4"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.7"	4.2"	3.4"	1.5"	0.0
VELOCITY (fps)	2300	2172	2048	1929	1853	1814
ENERGY (ft.-lbs.)	1762	1571	1397	1239	1143	1095
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.3"	-9.3"	-12.0"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.2"	-6.8"	-9.2"
TRAJ: 150 m. zero	-.8"	1.8"	2.1"	0.0	-2.9"	-4.9"
TRAJ: 200 yds. zero	-.8"	2.6"	3.7"	2.4"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	3.0"	4.6"	3.7"	1.6"	0.0
VELOCITY (fps)	2200	2075	1955	1839	1765	1727
ENERGY (ft.-lbs.)	1612	1434	1272	1126	1037	994
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-6.0"	-10.5"	-13.4"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.5"	-7.5"	-10.1"
TRAJ: 150 m. zero	-.8"	2.0"	2.4"	0.0	-3.2"	-5.4"
TRAJ: 200 yds. zero	-.8"	2.9"	4.1"	2.6"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.3"	5.1"	4.1"	1.8"	0.0
VELOCITY (fps)	2100	1979	1862	1749	1678	1642
ENERGY (ft.-lbs.)	1469	1304	1154	1019	938	898
TRAJ: 50 m. zero	-.8"	0.0	-1.9"	-6.7"	-11.7"	-15.0"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.9"	-8.3"	-11.3"
TRAJ: 150 m. zero	-.8"	2.2"	2.6"	0.0	-3.5"	-6.0"
TRAJ: 200 yds. zero	-.8"	3.2"	4.6"	2.9"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.7"	5.6"	4.5"	2.0"	0.0
VELOCITY (fps)	2000	1882	1769	1661	1593	1559
ENERGY (ft.-lbs.)	1332	1180	1042	919	845	809
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.6"	-13.2"	-16.8"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.4"	-9.3"	-12.6"
TRAJ: 150 m. zero	-.8"	2.5"	2.9"	0.0	-4.0"	-6.7"
TRAJ: 200 yds. zero	-.8"	3.6"	5.1"	3.2"	0.0	-2.4"
TRAJ: 200 m. zero	-.8"	4.2"	6.3"	5.0"	2.2"	0.0
VELOCITY (fps)	1900	1786	1677	1574	1509	1477
ENERGY (ft.-lbs.)	1202	1062	937	825	759	726
TRAJ: 50 m. zero	-.8"	0.0	-2.5"	-8.6"	-14.9"	-19.0"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.9"	-10.4"	-14.1"
TRAJ: 150 m. zero	-.8"	2.9"	3.3"	0.0	-4.4"	-7.5"
TRAJ: 200 yds. zero	-.8"	4.1"	5.7"	3.6"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	4.7"	7.0"	5.6"	2.4"	0.0
VELOCITY (fps)	1800	1690	1586	1488	1428	1397
ENERGY (ft.-lbs.)	1079	952	838	738	679	650
TRAJ: 50 m. zero	-.8"	0.0	-2.8"	-9.8"	-16.9"	-21.5"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.6"	-11.7"	-15.8"
TRAJ: 150 m. zero	-.8"	3.3"	3.7"	0.0	-5.0"	-8.4"
TRAJ: 200 yds. zero	-.8"	4.6"	6.4"	4.1"	0.0	-3.0"
TRAJ: 200 m. zero	-.8"	5.4"	7.9"	6.3"	2.7"	0.0
VELOCITY (fps)	1700	1595	1497	1405	1349	1321
ENERGY (ft.-lbs.)	962	848	746	657	606	581
TRAJ: 50 m. zero	-.8"	0.0	-3.3"	-11.2"	-19.3"	-24.4"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.3"	-13.2"	-17.8"
TRAJ: 150 m. zero	-.8"	3.7"	4.2"	0.0	-5.6"	-9.5"
TRAJ: 200 yds. zero	-.8"	5.3"	7.2"	4.6"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	6.1"	8.9"	7.1"	3.1"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1600	1501	1409	1324	1273	1248
ENERGY (ft.-lbs.)	853	750	661	584	540	519
TRAJ: 50 m. zero	-.8"	0.0	-3.8"	-12.9"	-22.0"	-27.9"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.1"	-15.0"	-20.2"
TRAJ: 150 m. zero	-.8"	4.3"	4.8"	0.0	-6.3"	-10.7"
TRAJ: 200 yds. zero	-.8"	6.0"	8.2"	5.2"	0.0	-3.8"
TRAJ: 200 m. zero	-.8"	7.0"	10.1"	8.0"	3.5"	0.0

30 CALIBER (.308" Dia.) 150 GRAIN FULL METAL JACKET BOAT TAIL
SECTIONAL DENSITY: .226 BALLISTIC COEFFICIENT: .398

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2600	2480	2363	2249	2175	2138
ENERGY (ft.-lbs.)	2251	2048	1859	1684	1576	1522
TRAJ: 50 m. zero	-.8"	0.0	-0.9"	-3.6"	-6.6"	-8.5"
TRAJ: 100 m. zero	-.8"	0.4"	0.0	-2.3"	-4.9"	-6.7"
TRAJ: 150 m. zero	-.8"	1.2"	1.5"	0.0	-2.1"	-3.6"
TRAJ: 200 yds. zero	-.8"	1.8"	2.7"	1.7"	0.0	-1.3"
TRAJ: 200 m. zero	-.8"	2.1"	3.3"	2.7"	1.2"	0.0
VELOCITY (fps)	2500	2382	2268	2156	2085	2048
ENERGY (ft.-lbs.)	2081	1890	1713	1548	1447	1397
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.1"	-7.3"	-9.4"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.5"	-5.4"	-7.3"
TRAJ: 150 m. zero	-.8"	1.4"	1.7"	0.0	-2.3"	-3.9"
TRAJ: 200 yds. zero	-.8"	2.0"	3.0"	1.9"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.3"	3.7"	2.9"	1.3"	0.0
VELOCITY (fps)	2400	2285	2173	2064	1994	1959
ENERGY (ft.-lbs.)	1918	1739	1573	1419	1325	1278
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.6"	-8.1"	-10.4"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-6.0"	-8.0"
TRAJ: 150 m. zero	-.8"	1.5"	1.9"	0.0	-2.5"	-4.3"
TRAJ: 200 yds. zero	-.8"	2.2"	3.3"	2.1"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.6"	4.0"	3.2"	1.4"	0.0
VELOCITY (fps)	2300	2188	2078	1972	1905	1870
ENERGY (ft.-lbs.)	1762	1594	1439	1296	1208	1164
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.2"	-9.1"	-11.6"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.1"	-6.6"	-8.9"
TRAJ: 150 m. zero	-.8"	1.7"	2.1"	0.0	-2.8"	-4.7"
TRAJ: 200 yds. zero	-.8"	2.5"	3.6"	2.3"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	2.9"	4.4"	3.6"	1.5"	0.0
VELOCITY (fps)	2200	2090	1984	1881	1815	1782
ENERGY (ft.-lbs.)	1612	1455	1311	1178	1097	1057
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.8"	-10.2"	-13.0"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.4"	-7.3"	-9.8"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.1"	-5.2"
TRAJ: 200 yds. zero	-.8"	2.8"	4.0"	2.5"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.2"	4.9"	3.9"	1.7"	0.0
VELOCITY (fps)	2100	1993	1890	1790	1727	1694
ENERGY (ft.-lbs.)	1469	1323	1190	1067	993	956
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.5"	-11.4"	-14.5"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.8"	-8.1"	-10.9"
TRAJ: 150 m. zero	-.8"	2.2"	2.5"	0.0	-3.4"	-5.8"
TRAJ: 200 yds. zero	-.8"	3.1"	4.4"	2.8"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.6"	5.4"	4.3"	1.9"	0.0
VELOCITY (fps)	2000	1896	1796	1700	1639	1608
ENERGY (ft.-lbs.)	1332	1198	1075	963	895	861
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.4"	-12.8"	-16.3"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.3"	-9.0"	-12.1"
TRAJ: 150 m. zero	-.8"	2.5"	2.8"	0.0	-3.8"	-6.4"
TRAJ: 200 yds. zero	-.8"	3.5"	4.9"	3.1"	0.0	-2.3"
TRAJ: 200 m. zero	-.8"	4.1"	6.1"	4.8"	2.1"	0.0
VELOCITY (fps)	1900	1800	1704	1611	1553	1524
ENERGY (ft.-lbs.)	1202	1079	966	865	803	773
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.4"	-14.5"	-18.4"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.8"	-10.1"	-13.6"
TRAJ: 150 m. zero	-.8"	2.8"	3.2"	0.0	-4.3"	-7.2"
TRAJ: 200 yds. zero	-.8"	4.0"	5.5"	3.5"	0.0	-2.5"
TRAJ: 200 m. zero	-.8"	4.6"	6.8"	5.4"	2.3"	0.0

Hornady HANDBOOK

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1800	1704	1611	1524	1469	1441
ENERGY (ft.-lbs.)	1079	967	865	773	719	692
TRAJ: 50 m. zero	-.8"	0.0	-2.8"	-9.6"	-16.4"	-20.8"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.4"	-11.4"	-15.3"
TRAJ: 150 m. zero	-.8"	3.2"	3.6"	0.0	-4.8"	-8.1"
TRAJ: 200 yds. zero	-.8"	4.5"	6.2"	3.9"	0.0	-2.9"
TRAJ: 200 m. zero	-.8"	5.2"	7.6"	6.1"	2.6"	0.0
VELOCITY (fps)	1700	1608	1521	1438	1387	1361
ENERGY (ft.-lbs.)	962	861	770	689	640	617
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-10.9"	-18.7"	-23.7"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.1"	-12.8"	-17.2"
TRAJ: 150 m. zero	-.8"	3.6"	4.1"	0.0	-5.4"	-9.1"
TRAJ: 200 yds. zero	-.8"	5.1"	7.0"	4.4"	0.0	-3.2"
TRAJ: 200 m. zero	-.8"	5.9"	8.6"	6.8"	2.9"	0.0
VELOCITY (fps)	1600	1513	1431	1355	1308	1284
ENERGY (ft.-lbs.)	853	762	682	611	569	549
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.6"	-21.4"	-27.0"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-6.9"	-14.6"	-19.6"
TRAJ: 150 m. zero	-.8"	4.2"	4.6"	0.0	-6.1"	-10.3"
TRAJ: 200 yds. zero	-.8"	5.9"	8.0"	5.0"	0.0	-3.6"
TRAJ: 200 m. zero	-.8"	6.8"	9.8"	7.7"	3.3"	0.0

30 CALIBER (.308" Dia.) 165 GRAIN SPIRE POINT SECTIONAL DENSITY: .248 BALLISTIC COEFFICIENT: .387

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2500	2379	2261	2147	2074	2036
ENERGY (ft.-lbs.)	2289	2073	1873	1688	1575	1518
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.1"	-7.3"	-9.4"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.6"	-5.4"	-7.4"
TRAJ: 150 m. zero	-.8"	1.4"	1.7"	0.0	-2.3"	-4.0"
TRAJ: 200 yds. zero	-.8"	2.0"	3.0"	1.9"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.4"	3.7"	3.0"	1.3"	0.0
VELOCITY (fps)	2400	2282	2167	2055	1984	1947
ENERGY (ft.-lbs.)	2110	1907	1720	1547	1441	1388
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.6"	-8.2"	-10.5"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-6.0"	-8.1"
TRAJ: 150 m. zero	-.8"	1.5"	1.9"	0.0	-2.6"	-4.3"
TRAJ: 200 yds. zero	-.8"	2.2"	3.3"	2.1"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.6"	4.0"	3.3"	1.4"	0.0
VELOCITY (fps)	2300	2185	2072	1964	1894	1858
ENERGY (ft.-lbs.)	1938	1748	1573	1412	1314	1265
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.2"	-9.1"	-11.7"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.1"	-6.6"	-8.9"
TRAJ: 150 m. zero	-.8"	1.7"	2.1"	0.0	-2.8"	-4.8"
TRAJ: 200 yds. zero	-.8"	2.5"	3.6"	2.3"	0.0	-1.7"
TRAJ: 200 m. zero	-.8"	2.9"	4.5"	3.6"	1.5"	0.0
VELOCITY (fps)	2200	2087	1978	1872	1805	1771
ENERGY (ft.-lbs.)	1773	1596	1433	1284	1193	1148
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.8"	-10.2"	-13.0"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.5"	-7.3"	-9.9"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.1"	-5.3"
TRAJ: 200 yds. zero	-.8"	2.8"	4.0"	2.5"	0.0	-1.9"
TRAJ: 200 m. zero	-.8"	3.3"	4.9"	3.9"	1.7"	0.0
VELOCITY (fps)	2100	1990	1884	1782	1717	1684
ENERGY (ft.-lbs.)	1615	1451	1301	1163	1080	1038
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.6"	-11.5"	-14.6"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.8"	-8.1"	-11.0"
TRAJ: 150 m. zero	-.8"	2.2"	2.6"	0.0	-3.4"	-5.8"
TRAJ: 200 yds. zero	-.8"	3.1"	4.4"	2.8"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.7"	5.5"	4.4"	1.9"	0.0
VELOCITY (fps)	2000	1894	1791	1692	1630	1598
ENERGY (ft.-lbs.)	1465	1313	1175	1049	973	936
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.4"	-12.9"	-16.4"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.3"	-9.1"	-12.2"
TRAJ: 150 m. zero	-.8"	2.5"	2.9"	0.0	-3.8"	-6.5"
TRAJ: 200 yds. zero	-.8"	3.5"	5.0"	3.1"	0.0	-2.3"
TRAJ: 200 m. zero	-.8"	4.1"	6.1"	4.9"	2.1"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1900	1797	1698	1604	1544	1514
ENERGY (ft.-lbs.)	1322	1183	1056	942	873	840
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.4"	-14.6"	-18.5"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.8"	-10.2"	-13.7"
TRAJ: 150 m. zero	-.8"	2.8"	3.2"	0.0	-4.3"	-7.3"
TRAJ: 200 yds. zero	-.8"	4.0"	5.6"	3.5"	0.0	-2.6"
TRAJ: 200 m. zero	-.8"	4.6"	6.8"	5.4"	2.3"	0.0
VELOCITY (fps)	1800	1701	1606	1517	1460	1432
ENERGY (ft.-lbs.)	1187	1060	945	843	781	751
TRAJ: 50 m. zero	-.8"	0.0	-2.8"	-9.6"	-16.5"	-21.0"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.4"	-11.4"	-15.4"
TRAJ: 150 m. zero	-.8"	3.2"	3.6"	0.0	-4.8"	-8.1"
TRAJ: 200 yds. zero	-.8"	4.5"	6.2"	3.9"	0.0	-2.9"
TRAJ: 200 m. zero	-.8"	5.2"	7.7"	6.1"	2.6"	0.0
VELOCITY (fps)	1700	1605	1516	1431	1379	1353
ENERGY (ft.-lbs.)	1059	944	842	750	697	670
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-11.0"	-18.8"	-23.8"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.1"	-12.9"	-17.4"
TRAJ: 150 m. zero	-.8"	3.7"	4.1"	0.0	-5.4"	-9.2"
TRAJ: 200 yds. zero	-.8"	5.1"	7.1"	4.4"	0.0	-3.2"
TRAJ: 200 m. zero	-.8"	6.0"	8.7"	6.9"	3.0"	0.0
VELOCITY (fps)	1600	1511	1426	1348	1300	1277
ENERGY (ft.-lbs.)	938	836	745	666	620	597
TRAJ: 50 m. zero	-.8"	0.0	-3.8"	-12.6"	-21.5"	-27.2"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.0"	-14.7"	-19.7"
TRAJ: 150 m. zero	-.8"	4.2"	4.7"	0.0	-6.1"	-10.4"
TRAJ: 200 yds. zero	-.8"	5.9"	8.0"	5.0"	0.0	-3.7"
TRAJ: 200 m. zero	-.8"	6.8"	9.8"	7.8"	3.4"	0.0
VELOCITY (fps)	1500	1417	1339	1269	1226	1205
ENERGY (ft.-lbs.)	824	735	657	589	551	532
TRAJ: 50 m. zero	-.8"	0.0	-4.4"	-14.6"	-24.7"	-31.2"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-8.0"	-16.7"	-22.4"
TRAJ: 150 m. zero	-.8"	4.9"	5.3"	0.0	-7.0"	-11.8"
TRAJ: 200 yds. zero	-.8"	6.8"	9.1"	5.7"	0.0	-4.2"
TRAJ: 200 m. zero	-.8"	7.8"	11.2"	8.8"	3.8"	0.0

30 CALIBER (.308" Dia.) 165 GRAIN BOAT TAIL SPIRE POINT
SECTIONAL DENSITY: .248 BALLISTIC COEFFICIENT: .435

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2500	2392	2287	2184	2118	2084
ENERGY (ft.-lbs.)	2289	2096	1916	1748	1644	1592
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.0"	-7.2"	-9.2"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.5"	-5.3"	-7.2"
TRAJ: 150 m. zero	-.8"	1.3"	1.7"	0.0	-2.3"	-3.8"
TRAJ: 200 yds. zero	-.8"	2.0"	2.9"	1.9"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.3"	3.6"	2.9"	1.2"	0.0
VELOCITY (fps)	2400	2295	2192	2092	2027	1994
ENERGY (ft.-lbs.)	2110	1929	1760	1603	1505	1457
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.5"	-8.0"	-10.2"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.8"	-5.8"	-7.9"
TRAJ: 150 m. zero	-.8"	1.5"	1.8"	0.0	-2.5"	-4.2"
TRAJ: 200 yds. zero	-.8"	2.2"	3.2"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.6"	3.9"	3.2"	1.4"	0.0
VELOCITY (fps)	2300	2197	2097	1999	1936	1904
ENERGY (ft.-lbs.)	1938	1768	1610	1464	1374	1328
TRAJ: 50 m. zero	-.8"	0.0	-1.4"	-5.1"	-8.9"	-11.4"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.0"	-6.4"	-8.7"
TRAJ: 150 m. zero	-.8"	1.7"	2.0"	0.0	-2.7"	-4.6"
TRAJ: 200 yds. zero	-.8"	2.4"	3.5"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.8"	4.3"	3.5"	1.5"	0.0
VELOCITY (fps)	2200	2100	2002	1907	1846	1815
ENERGY (ft.-lbs.)	1773	1615	1468	1332	1248	1207
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.7"	-10.0"	-12.7"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.4"	-7.1"	-9.6"
TRAJ: 150 m. zero	-.8"	1.9"	2.2"	0.0	-3.0"	-5.1"
TRAJ: 200 yds. zero	-.8"	2.7"	3.9"	2.5"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.2"	4.8"	3.8"	1.7"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2100	2002	1907	1815	1757	1727
ENERGY (ft.-lbs.)	1615	1469	1333	1207	1130	1092
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.4"	-11.2"	-14.2"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.8"	-7.9"	-10.7"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.3"	-5.7"
TRAJ: 200 yds. zero	-.8"	3.1"	4.3"	2.7"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.6"	5.3"	4.2"	1.8"	0.0
VELOCITY (fps)	2000	1905	1813	1724	1668	1639
ENERGY (ft.-lbs.)	1465	1330	1204	1089	1019	984
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.3"	-12.6"	-16.0"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.2"	-8.8"	-11.9"
TRAJ: 150 m. zero	-.8"	2.4"	2.8"	0.0	-3.7"	-6.3"
TRAJ: 200 yds. zero	-.8"	3.4"	4.8"	3.1"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	4.0"	5.9"	4.7"	2.0"	0.0
VELOCITY (fps)	1900	1808	1720	1634	1580	1553
ENERGY (ft.-lbs.)	1322	1198	1083	979	915	883
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.3"	-14.2"	-18.1"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.7"	-9.9"	-13.3"
TRAJ: 150 m. zero	-.8"	2.8"	3.1"	0.0	-4.2"	-7.0"
TRAJ: 200 yds. zero	-.8"	3.9"	5.4"	3.4"	0.0	-2.5"
TRAJ: 200 m. zero	-.8"	4.5"	6.7"	5.3"	2.3"	0.0
VELOCITY (fps)	1800	1712	1627	1546	1495	1469
ENERGY (ft.-lbs.)	1187	1073	970	875	818	790
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.4"	-16.2"	-20.5"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.3"	-11.1"	-15.0"
TRAJ: 150 m. zero	-.8"	3.1"	3.5"	0.0	-4.7"	-7.9"
TRAJ: 200 yds. zero	-.8"	4.4"	6.1"	3.8"	0.0	-2.8"
TRAJ: 200 m. zero	-.8"	5.1"	7.5"	5.9"	2.5"	0.0
VELOCITY (fps)	1700	1616	1535	1459	1411	1387
ENERGY (ft.-lbs.)	1059	956	863	779	729	704
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-10.8"	-18.4"	-23.3"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.0"	-12.6"	-16.9"
TRAJ: 150 m. zero	-.8"	3.6"	4.0"	0.0	-5.3"	-8.9"
TRAJ: 200 yds. zero	-.8"	5.0"	6.9"	4.3"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.8"	8.4"	6.7"	2.9"	0.0
VELOCITY (fps)	1600	1520	1445	1374	1330	1308
ENERGY (ft.-lbs.)	938	847	764	691	647	626
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.4"	-21.1"	-26.6"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-6.8"	-14.3"	-19.2"
TRAJ: 150 m. zero	-.8"	4.1"	4.6"	0.0	-6.0"	-10.1"
TRAJ: 200 yds. zero	-.8"	5.8"	7.8"	4.9"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	6.6"	9.6"	7.5"	3.2"	0.0
VELOCITY (fps)	1500	1426	1356	1291	1252	1232
ENERGY (ft.-lbs.)	824	744	673	611	574	556
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.3"	-24.2"	-30.5"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-7.8"	-16.3"	-21.9"
TRAJ: 150 m. zero	-.8"	4.8"	5.2"	0.0	-6.8"	-11.4"
TRAJ: 200 yds. zero	-.8"	6.6"	8.9"	5.6"	0.0	-4.0"
TRAJ: 200 m. zero	-.8"	7.6"	10.9"	8.6"	3.7"	0.0

30 CALIBER (.308" Dia.) 168 GRAIN BOAT TAIL HOLLOW POINT NATIONAL MATCH
SECTIONAL DENSITY: .253 BALLISTIC COEFFICIENT: .450

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2500	2396	2294	2195	2131	2098
ENERGY (ft.-lbs.)	2331	2141	1963	1796	1693	1641
TRAJ: 50 m. zero	-.8"	0.0	-1.0"	-4.0"	-7.1"	-9.1"
TRAJ: 100 m. zero	-.8"	0.5"	0.0	-2.5"	-5.3"	-7.1"
TRAJ: 150 m. zero	-.8"	1.3"	1.7"	0.0	-2.3"	-3.8"
TRAJ: 200 yds. zero	-.8"	1.9"	2.9"	1.8"	0.0	-1.4"
TRAJ: 200 m. zero	-.8"	2.3"	3.6"	2.9"	1.2"	0.0
VELOCITY (fps)	2400	2298	2199	2102	2039	2007
ENERGY (ft.-lbs.)	2148	1970	1803	1647	1551	1502
TRAJ: 50 m. zero	-.8"	0.0	-1.2"	-4.5"	-7.9"	-10.2"
TRAJ: 100 m. zero	-.8"	0.6"	0.0	-2.7"	-5.8"	-7.8"
TRAJ: 150 m. zero	-.8"	1.5"	1.8"	0.0	-2.5"	-4.2"
TRAJ: 200 yds. zero	-.8"	2.2"	3.2"	2.0"	0.0	-1.5"
TRAJ: 200 m. zero	-.8"	2.5"	3.9"	3.1"	1.4"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2300	2200	2103	2009	1948	1917
ENERGY (ft.-lbs.)	1973	1806	1650	1505	1415	1370
TRAJ: 50 m. zero	-.8"	0.0	-1.3"	-5.0"	-8.9"	-11.3"
TRAJ: 100 m. zero	-.8"	0.7"	0.0	-3.0"	-6.4"	-8.6"
TRAJ: 150 m. zero	-.8"	1.7"	2.0"	0.0	-2.7"	-4.6"
TRAJ: 200 yds. zero	-.8"	2.4"	3.5"	2.2"	0.0	-1.6"
TRAJ: 200 m. zero	-.8"	2.8"	4.3"	3.4"	1.5"	0.0
VELOCITY (fps)	2200	2103	2008	1916	1857	1827
ENERGY (ft.-lbs.)	1805	1649	1504	1370	1287	1245
TRAJ: 50 m. zero	-.8"	0.0	-1.6"	-5.7"	-9.9"	-12.6"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.4"	-7.1"	-9.5"
TRAJ: 150 m. zero	-.8"	1.9"	2.2"	0.0	-3.0"	-5.1"
TRAJ: 200 yds. zero	-.8"	2.7"	3.9"	2.5"	0.0	-1.8"
TRAJ: 200 m. zero	-.8"	3.2"	4.8"	3.8"	1.6"	0.0
VELOCITY (fps)	2100	2005	1914	1824	1767	1738
ENERGY (ft.-lbs.)	1645	1500	1366	1241	1165	1127
TRAJ: 50 m. zero	-.8"	0.0	-1.8"	-6.4"	-11.1"	-14.2"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.7"	-7.9"	-10.6"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.3"	-5.6"
TRAJ: 200 yds. zero	-.8"	3.0"	4.3"	2.7"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.5"	5.3"	4.2"	1.8"	0.0
VELOCITY (fps)	2000	1908	1819	1733	1678	1650
ENERGY (ft.-lbs.)	1492	1358	1234	1120	1051	1016
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.3"	-12.5"	-15.9"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.2"	-8.8"	-11.8"
TRAJ: 150 m. zero	-.8"	2.4"	2.8"	0.0	-3.7"	-6.2"
TRAJ: 200 yds. zero	-.8"	3.4"	4.8"	3.0"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	4.0"	5.9"	4.7"	2.0"	0.0
VELOCITY (fps)	1900	1811	1725	1643	1590	1564
ENERGY (ft.-lbs.)	1346	1224	1110	1007	943	912
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.2"	-14.2"	-17.9"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.7"	-9.8"	-13.2"
TRAJ: 150 m. zero	-.8"	2.7"	3.1"	0.0	-4.1"	-7.0"
TRAJ: 200 yds. zero	-.8"	3.9"	5.4"	3.4"	0.0	-2.5"
TRAJ: 200 m. zero	-.8"	4.5"	6.6"	5.2"	2.2"	0.0
VELOCITY (fps)	1800	1715	1632	1554	1504	1479
ENERGY (ft.-lbs.)	1208	1096	994	900	844	816
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.4"	-16.1"	-20.3"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.3"	-11.1"	-14.8"
TRAJ: 150 m. zero	-.8"	3.1"	3.5"	0.0	-4.6"	-7.8"
TRAJ: 200 yds. zero	-.8"	4.4"	6.0"	3.8"	0.0	-2.8"
TRAJ: 200 m. zero	-.8"	5.1"	7.4"	5.9"	2.5"	0.0
VELOCITY (fps)	1700	1618	1540	1466	1419	1396
ENERGY (ft.-lbs.)	1078	977	885	802	752	727
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-10.7"	-18.3"	-23.1"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.0"	-12.5"	-16.8"
TRAJ: 150 m. zero	-.8"	3.6"	4.0"	0.0	-5.2"	-8.8"
TRAJ: 200 yds. zero	-.8"	5.0"	6.8"	4.3"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.8"	8.4"	6.6"	2.8"	0.0
VELOCITY (fps)	1600	1523	1449	1380	1337	1316
ENERGY (ft.-lbs.)	955	865	784	711	667	646
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.3"	-20.9"	-26.4"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-6.8"	-14.2"	-19.0"
TRAJ: 150 m. zero	-.8"	4.1"	4.5"	0.0	-5.9"	-10.0"
TRAJ: 200 yds. zero	-.8"	5.7"	7.8"	4.9"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	6.6"	9.5"	7.5"	3.2"	0.0
VELOCITY (fps)	1500	1428	1360	1297	1259	1240
ENERGY (ft.-lbs.)	839	760	690	628	591	573
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.2"	-24.1"	-30.3"
TRAJ: 100 m. zero	-.8"	2.1"	0.0	-7.8"	-16.2"	-21.7"
TRAJ: 150 m. zero	-.8"	4.7"	5.2"	0.0	-6.7"	-11.3"
TRAJ: 200 yds. zero	-.8"	6.6"	8.9"	5.5"	0.0	-4.0"
TRAJ: 200 m. zero	-.8"	7.6"	10.9"	8.5"	3.6"	0.0

38 CALIBER (.357" Dia.) 158 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .177 BALLISTIC COEFFICIENT: .206

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2000	1803	1621	1455	1356	1309
ENERGY (ft.-lbs.)	1403	1140	921	742	645	601
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.8"	-15.6"	-20.1"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-5.2"	-11.2"	-15.3"
TRAJ: 150 m. zero	-.8"	2.9"	3.5"	0.0	-4.9"	-8.4"
TRAJ: 200 yds. zero	-.8"	4.3"	6.1"	4.0"	0.0	-3.0"
TRAJ: 200 m. zero	-.8"	5.0"	7.6"	6.3"	2.8"	0.0
VELOCITY (fps)	1900	1710	1535	1379	1288	1245
ENERGY (ft.-lbs.)	1266	1026	827	667	582	544
TRAJ: 50 m. zero	-.8"	0.0	-2.8"	-10.0"	-17.6"	-22.6"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.8"	-12.5"	-17.1"
TRAJ: 150 m. zero	-.8"	3.3"	3.9"	0.0	-5.5"	-9.4"
TRAJ: 200 yds. zero	-.8"	4.8"	6.9"	4.5"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	5.7"	8.6"	7.0"	3.1"	0.0
VELOCITY (fps)	1800	1618	1452	1307	1225	1186
ENERGY (ft.-lbs.)	1136	918	740	599	526	494
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-11.3"	-19.9"	-25.5"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.5"	-14.1"	-19.2"
TRAJ: 150 m. zero	-.8"	3.8"	4.4"	0.0	-6.1"	-10.5"
TRAJ: 200 yds. zero	-.8"	5.4"	7.7"	5.0"	0.0	-3.8"
TRAJ: 200 m. zero	-.8"	6.4"	9.6"	7.8"	3.5"	0.0
VELOCITY (fps)	1700	1526	1371	1239	1166	1133
ENERGY (ft.-lbs.)	1014	817	660	538	477	450
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.9"	-22.6"	-28.9"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-7.4"	-15.8"	-21.5"
TRAJ: 150 m. zero	-.8"	4.3"	4.9"	0.0	-6.9"	-11.7"
TRAJ: 200 yds. zero	-.8"	6.2"	8.7"	5.6"	0.0	-4.2"
TRAJ: 200 m. zero	-.8"	7.2"	10.8"	8.8"	3.9"	0.0
VELOCITY (fps)	1600	1436	1293	1176	1113	1086
ENERGY (ft.-lbs.)	898	724	587	485	435	413
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.7"	-25.6"	-32.7"
TRAJ: 100 m. zero	-.8"	2.1"	0.0	-8.3"	-17.9"	-24.2"
TRAJ: 150 m. zero	-.8"	4.9"	5.6"	0.0	-7.7"	-13.1"
TRAJ: 200 yds. zero	-.8"	7.0"	9.8"	6.3"	0.0	-4.7"
TRAJ: 200 m. zero	-.8"	8.2"	12.1"	9.8"	4.3"	0.0
VELOCITY (fps)	1500	1348	1220	1119	1067	1043
ENERGY (ft.-lbs.)	789	638	522	439	399	382
TRAJ: 50 m. zero	-.8"	0.0	-4.9"	-16.8"	-29.1"	-37.0"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-9.5"	-20.1"	-27.2"
TRAJ: 150 m. zero	-.8"	5.6"	6.3"	0.0	-8.6"	-14.6"
TRAJ: 200 yds. zero	-.8"	8.0"	11.0"	7.0"	0.0	-5.2"
TRAJ: 200 m. zero	-.8"	9.3"	13.6"	10.9"	4.7"	0.0
VELOCITY (fps)	1400	1263	1152	1068	1024	1005
ENERGY (ft.-lbs.)	688	559	465	400	368	354
TRAJ: 50 m. zero	-.8"	0.0	-5.7"	-19.3"	-33.0"	-41.9"
TRAJ: 100 m. zero	-.8"	2.9"	0.0	-10.7"	-22.6"	-30.4"
TRAJ: 150 m. zero	-.8"	6.4"	7.1"	0.0	-9.5"	-16.2"
TRAJ: 200 yds. zero	-.8"	9.0"	12.3"	7.8"	0.0	-5.7"
TRAJ: 200 m. zero	-.8"	10.5"	15.2"	12.1"	5.2"	0.0
VELOCITY (fps)	1300	1181	1089	1021	985	968
ENERGY (ft.-lbs.)	593	489	416	366	340	329
TRAJ: 50 m. zero	-.8"	0.0	-6.6"	-22.0"	-37.4"	-47.2"
TRAJ: 100 m. zero	-.8"	3.3"	0.0	-12.0"	-25.3"	-33.9"
TRAJ: 150 m. zero	-.8"	7.3"	8.0"	0.0	-10.6"	-17.9"
TRAJ: 200 yds. zero	-.8"	10.2"	13.8"	8.7"	0.0	-6.3"
TRAJ: 200 m. zero	-.8"	11.8"	17.0"	13.4"	5.8"	0.0
VELOCITY (fps)	1200	1104	1032	977	946	931
ENERGY (ft.-lbs.)	505	427	374	335	314	304
TRAJ: 50 m. zero	-.8"	0.0	-7.7"	-25.1"	-42.4"	-53.3"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-13.6"	-28.3"	-37.9"
TRAJ: 150 m. zero	-.8"	8.4"	9.0"	0.0	-11.8"	-19.8"
TRAJ: 200 yds. zero	-.8"	11.6"	15.5"	9.6"	0.0	-7.0"
TRAJ: 200 m. zero	-.8"	13.3"	18.9"	14.9"	6.4"	0.0

38 CALIBER (.357" Dia.) 158 GRAIN XTP FLAT POINT
SECTIONAL DENSITY: .177 BALLISTIC COEFFICIENT: .199

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2000	1796	1608	1438	1338	1291
ENERGY (ft.-lbs.)	1403	1132	907	726	628	584
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.9"	-15.8"	-20.4"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-5.3"	-11.4"	-15.5"
TRAJ: 150 m. zero	-.8"	3.0"	3.5"	0.0	-5.0"	-8.5"
TRAJ: 200 yds. zero	-.8"	4.3"	6.2"	4.1"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.1"	7.8"	6.4"	2.8"	0.0
VELOCITY (fps)	1900	1704	1524	1364	1272	1229
ENERGY (ft.-lbs.)	1266	1018	814	653	567	529
TRAJ: 50 m. zero	-.8"	0.0	-2.8"	-10.1"	-17.9"	-23.0"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.9"	-12.7"	-17.4"
TRAJ: 150 m. zero	-.8"	3.4"	3.9"	0.0	-5.6"	-9.5"
TRAJ: 200 yds. zero	-.8"	4.9"	7.0"	4.6"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	5.7"	8.7"	7.2"	3.2"	0.0
VELOCITY (fps)	1800	1611	1441	1293	1210	1172
ENERGY (ft.-lbs.)	1136	911	729	586	513	481
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-11.5"	-20.2"	-25.9"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.6"	-14.3"	-19.5"
TRAJ: 150 m. zero	-.8"	3.8"	4.4"	0.0	-6.2"	-10.7"
TRAJ: 200 yds. zero	-.8"	5.5"	7.8"	5.1"	0.0	-3.8"
TRAJ: 200 m. zero	-.8"	6.5"	9.7"	8.0"	3.5"	0.0
VELOCITY (fps)	1700	1521	1361	1226	1153	1120
ENERGY (ft.-lbs.)	1014	811	650	527	467	440
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-13.0"	-22.9"	-29.3"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.5"	-16.1"	-21.9"
TRAJ: 150 m. zero	-.8"	4.3"	5.0"	0.0	-7.0"	-11.9"
TRAJ: 200 yds. zero	-.8"	6.3"	8.8"	5.7"	0.0	-4.3"
TRAJ: 200 m. zero	-.8"	7.3"	10.9"	8.9"	3.9"	0.0
VELOCITY (fps)	1600	1431	1284	1165	1103	1075
ENERGY (ft.-lbs.)	898	718	579	476	426	405
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.9"	-26.0"	-33.1"
TRAJ: 100 m. zero	-.8"	2.1"	0.0	-8.5"	-18.1"	-24.6"
TRAJ: 150 m. zero	-.8"	5.0"	5.6"	0.0	-7.8"	-13.3"
TRAJ: 200 yds. zero	-.8"	7.1"	9.9"	6.4"	0.0	-4.8"
TRAJ: 200 m. zero	-.8"	8.3"	12.3"	10.0"	4.4"	0.0
VELOCITY (fps)	1500	1343	1212	1110	1058	1034
ENERGY (ft.-lbs.)	789	633	515	432	392	375
TRAJ: 50 m. zero	-.8"	0.0	-5.0"	-17.0"	-29.4"	-37.5"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-9.6"	-20.4"	-27.5"
TRAJ: 150 m. zero	-.8"	5.7"	6.4"	0.0	-8.7"	-14.8"
TRAJ: 200 yds. zero	-.8"	8.0"	11.1"	7.1"	0.0	-5.3"
TRAJ: 200 m. zero	-.8"	9.4"	13.8"	11.1"	4.8"	0.0
VELOCITY (fps)	1400	1258	1145	1060	1017	997
ENERGY (ft.-lbs.)	688	555	460	394	363	349
TRAJ: 50 m. zero	-.8"	0.0	-5.8"	-19.4"	-33.4"	-42.3"
TRAJ: 100 m. zero	-.8"	2.9"	0.0	-10.8"	-22.8"	-30.7"
TRAJ: 150 m. zero	-.8"	6.5"	7.2"	0.0	-9.7"	-16.4"
TRAJ: 200 yds. zero	-.8"	9.1"	12.5"	7.9"	0.0	-5.8"
TRAJ: 200 m. zero	-.8"	10.6"	15.4"	12.3"	5.3"	0.0
VELOCITY (fps)	1300	1177	1084	1015	979	962
ENERGY (ft.-lbs.)	593	486	412	361	336	324
TRAJ: 50 m. zero	-.8"	0.0	-6.7"	-22.2"	-37.7"	-47.6"
TRAJ: 100 m. zero	-.8"	3.3"	0.0	-12.1"	-25.5"	-34.3"
TRAJ: 150 m. zero	-.8"	7.4"	8.1"	0.0	-10.7"	-18.1"
TRAJ: 200 yds. zero	-.8"	10.3"	13.9"	8.8"	0.0	-6.4"
TRAJ: 200 m. zero	-.8"	11.9"	17.1"	13.5"	5.8"	0.0
VELOCITY (fps)	1200	1101	1028	972	941	926
ENERGY (ft.-lbs.)	505	425	371	331	310	301
TRAJ: 50 m. zero	-.8"	0.0	-7.8"	-25.3"	-42.7"	-53.7"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-13.7"	-28.5"	-38.2"
TRAJ: 150 m. zero	-.8"	8.4"	9.1"	0.0	-11.9"	-20.0"
TRAJ: 200 yds. zero	-.8"	11.7"	15.6"	9.7"	0.0	-7.0"
TRAJ: 200 m. zero	-.8"	13.4"	19.1"	15.0"	6.4"	0.0

38 CALIBER (.357" Dia.) 160 GRAIN JACKETED TRUNCATED CONE SILHOUETTE
SECTIONAL DENSITY: .179 BALLISTIC COEFFICIENT: .181

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2000	1777	1573	1392	1288	1239
ENERGY (ft.-lbs.)	1421	1122	879	688	589	545
TRAJ: 50 m. zero	-.8"	0.0	-2.5"	-9.2"	-16.5"	-21.4"
TRAJ: 100 m. zero	-.8"	1.3"	0.0	-5.5"	-11.9"	-16.3"
TRAJ: 150 m. zero	-.8"	3.1"	3.7"	0.0	-5.3"	-9.0"
TRAJ: 200 yds. zero	-.8"	4.5"	6.5"	4.3"	0.0	-3.3"
TRAJ: 200 m. zero	-.8"	5.3"	8.2"	6.8"	3.0"	0.0
VELOCITY (fps)	1900	1685	1490	1321	1226	1183
ENERGY (ft.-lbs.)	1282	1008	789	620	534	497
TRAJ: 50 m. zero	-.8"	0.0	-2.9"	-10.5"	-18.6"	-24.0"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-6.1"	-13.4"	-18.3"
TRAJ: 150 m. zero	-.8"	3.5"	4.1"	0.0	-5.9"	-10.1"
TRAJ: 200 yds. zero	-.8"	5.1"	7.3"	4.8"	0.0	-3.7"
TRAJ: 200 m. zero	-.8"	6.0"	9.1"	7.6"	3.3"	0.0
VELOCITY (fps)	1800	1594	1410	1254	1169	1132
ENERGY (ft.-lbs.)	1151	902	706	558	486	455
TRAJ: 50 m. zero	-.8"	0.0	-3.3"	-11.9"	-21.0"	-27.1"
TRAJ: 100 m. zero	-.8"	1.7"	0.0	-6.9"	-15.0"	-20.4"
TRAJ: 150 m. zero	-.8"	4.0"	4.6"	0.0	-6.5"	-11.2"
TRAJ: 200 yds. zero	-.8"	5.7"	8.2"	5.4"	0.0	-4.1"
TRAJ: 200 m. zero	-.8"	6.8"	10.2"	8.4"	3.7"	0.0
VELOCITY (fps)	1700	1504	1332	1191	1118	1086
ENERGY (ft.-lbs.)	1027	803	630	504	444	419
TRAJ: 50 m. zero	-.8"	0.0	-3.8"	-13.5"	-23.8"	-30.5"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.8"	-16.8"	-22.9"
TRAJ: 150 m. zero	-.8"	4.5"	5.2"	0.0	-7.3"	-12.5"
TRAJ: 200 yds. zero	-.8"	6.5"	9.2"	6.0"	0.0	-4.5"
TRAJ: 200 m. zero	-.8"	7.6"	11.4"	9.4"	4.1"	0.0
VELOCITY (fps)	1600	1415	1258	1135	1073	1046
ENERGY (ft.-lbs.)	909	712	562	458	409	389
TRAJ: 50 m. zero	-.8"	0.0	-4.4"	-15.4"	-26.9"	-34.4"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-8.8"	-18.8"	-25.6"
TRAJ: 150 m. zero	-.8"	5.1"	5.9"	0.0	-8.1"	-13.9"
TRAJ: 200 yds. zero	-.8"	7.4"	10.3"	6.7"	0.0	-5.0"
TRAJ: 200 m. zero	-.8"	8.6"	12.8"	10.4"	4.6"	0.0
VELOCITY (fps)	1500	1329	1189	1085	1033	1010
ENERGY (ft.-lbs.)	799	627	502	418	379	362
TRAJ: 50 m. zero	-.8"	0.0	-5.1"	-17.5"	-30.4"	-38.7"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-9.9"	-21.1"	-28.5"
TRAJ: 150 m. zero	-.8"	5.8"	6.6"	0.0	-9.0"	-15.3"
TRAJ: 200 yds. zero	-.8"	8.3"	11.5"	7.4"	0.0	-5.5"
TRAJ: 200 m. zero	-.8"	9.7"	14.3"	11.5"	5.0"	0.0
VELOCITY (fps)	1400	1246	1126	1040	996	976
ENERGY (ft.-lbs.)	696	551	450	384	352	338
TRAJ: 50 m. zero	-.8"	0.0	-5.9"	-20.0"	-34.3"	-43.5"
TRAJ: 100 m. zero	-.8"	3.0"	0.0	-11.1"	-23.5"	-31.7"
TRAJ: 150 m. zero	-.8"	6.7"	7.4"	0.0	-10.0"	-16.9"
TRAJ: 200 yds. zero	-.8"	9.4"	12.9"	8.2"	0.0	-6.0"
TRAJ: 200 m. zero	-.8"	10.9"	15.9"	12.7"	5.5"	0.0
VELOCITY (fps)	1300	1167	1069	998	961	943
ENERGY (ft.-lbs.)	600	483	406	354	328	316
TRAJ: 50 m. zero	-.8"	0.0	-6.8"	-22.7"	-38.7"	-48.8"
TRAJ: 100 m. zero	-.8"	3.4"	0.0	-12.5"	-26.2"	-35.2"
TRAJ: 150 m. zero	-.8"	7.6"	8.3"	0.0	-11.0"	-18.6"
TRAJ: 200 yds. zero	-.8"	10.6"	14.3"	9.0"	0.0	-6.6"
TRAJ: 200 m. zero	-.8"	12.2"	17.6"	13.9"	6.0"	0.0
VELOCITY (fps)	1200	1093	1016	957	925	909
ENERGY (ft.-lbs.)	512	424	366	325	304	294
TRAJ: 50 m. zero	-.8"	0.0	-7.9"	-25.8"	-43.6"	-54.9"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-14.0"	-29.2"	-39.1"
TRAJ: 150 m. zero	-.8"	8.6"	9.3"	0.0	-12.1"	-20.5"
TRAJ: 200 yds. zero	-.8"	11.9"	15.9"	10.0"	0.0	-7.2"
TRAJ: 200 m. zero	-.8"	13.7"	19.5"	15.4"	6.6"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1100	1021	961	913	885	871
ENERGY (ft.-lbs.)	430	370	328	296	278	270
TRAJ: 50 m. zero	-.8"	0.0	-9.1"	-29.5"	-49.5"	-62.2"
TRAJ: 100 m. zero	-.8"	4.6"	0.0	-15.8"	-32.8"	-43.9"
TRAJ: 150 m. zero	-.8"	9.8"	10.5"	0.0	-13.6"	-22.9"
TRAJ: 200 yds. zero	-.8"	13.5"	17.9"	11.1"	0.0	-8.0"
TRAJ: 200 m. zero	-.8"	15.5"	21.9"	17.2"	7.3"	0.0
VELOCITY (fps)	1000	945	899	859	834	822
ENERGY (ft.-lbs.)	355	317	287	262	247	240
TRAJ: 50 m. zero	-.8"	0.0	-10.8"	-34.5"	-57.7"	-72.2"
TRAJ: 100 m. zero	-.8"	5.4"	0.0	-18.3"	-37.9"	-50.6"
TRAJ: 150 m. zero	-.8"	11.5"	12.2"	0.0	-15.6"	-26.2"
TRAJ: 200 yds. zero	-.8"	15.8"	20.7"	12.8"	0.0	-9.2"
TRAJ: 200 m. zero	-.8"	18.1"	25.3"	19.7"	8.4"	0.0

38 CALIBER (.357" Dia.) 180 GRAIN JACKETED TRUNCATED CONE SILHOUETTE
SECTIONAL DENSITY: .202 BALLISTIC COEFFICIENT: .232

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2000	1825	1660	1508	1417	1372
ENERGY (ft.-lbs.)	1598	1330	1101	909	802	752
TRAJ: 50 m. zero	-.8"	0.0	-2.3"	-8.4"	-14.9"	-19.1"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-4.9"	-10.6"	-14.5"
TRAJ: 150 m. zero	-.8"	2.8"	3.3"	0.0	-4.6"	-7.9"
TRAJ: 200 yds. zero	-.8"	4.1"	5.8"	3.8"	0.0	-2.8"
TRAJ: 200 m. zero	-.8"	4.8"	7.2"	5.9"	2.6"	0.0
VELOCITY (fps)	1900	1731	1573	1429	1344	1302
ENERGY (ft.-lbs.)	1443	1197	989	816	722	678
TRAJ: 50 m. zero	-.8"	0.0	-2.7"	-9.6"	-16.8"	-21.6"
TRAJ: 100 m. zero	-.8"	1.3"	0.0	-5.6"	-11.9"	-16.2"
TRAJ: 150 m. zero	-.8"	3.2"	3.7"	0.0	-5.2"	-8.8"
TRAJ: 200 yds. zero	-.8"	4.6"	6.5"	4.2"	0.0	-3.2"
TRAJ: 200 m. zero	-.8"	5.4"	8.1"	6.6"	2.9"	0.0
VELOCITY (fps)	1800	1637	1488	1353	1275	1237
ENERGY (ft.-lbs.)	1295	1071	884	732	649	612
TRAJ: 50 m. zero	-.8"	0.0	-3.1"	-10.9"	-19.0"	-24.4"
TRAJ: 100 m. zero	-.8"	1.5"	0.0	-6.3"	-13.4"	-18.2"
TRAJ: 150 m. zero	-.8"	3.6"	4.2"	0.0	-5.8"	-9.9"
TRAJ: 200 yds. zero	-.8"	5.2"	7.3"	4.7"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	6.1"	9.1"	7.4"	3.2"	0.0
VELOCITY (fps)	1700	1545	1404	1280	1210	1177
ENERGY (ft.-lbs.)	1155	954	788	655	585	554
TRAJ: 50 m. zero	-.8"	0.0	-3.6"	-12.4"	-21.6"	-27.6"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-7.1"	-15.1"	-20.5"
TRAJ: 150 m. zero	-.8"	4.1"	4.7"	0.0	-6.5"	-11.1"
TRAJ: 200 yds. zero	-.8"	5.9"	8.3"	5.3"	0.0	-4.0"
TRAJ: 200 m. zero	-.8"	6.9"	10.2"	8.3"	3.6"	0.0
VELOCITY (fps)	1600	1454	1324	1212	1151	1123
ENERGY (ft.-lbs.)	1023	845	700	587	529	504
TRAJ: 50 m. zero	-.8"	0.0	-4.1"	-14.2"	-24.6"	-31.3"
TRAJ: 100 m. zero	-.8"	2.1"	0.0	-8.0"	-17.1"	-23.1"
TRAJ: 150 m. zero	-.8"	4.7"	5.3"	0.0	-7.3"	-12.4"
TRAJ: 200 yds. zero	-.8"	6.7"	9.3"	6.0"	0.0	-4.4"
TRAJ: 200 m. zero	-.8"	7.8"	11.5"	9.3"	4.1"	0.0
VELOCITY (fps)	1500	1364	1246	1149	1098	1074
ENERGY (ft.-lbs.)	899	744	621	528	482	461
TRAJ: 50 m. zero	-.8"	0.0	-4.8"	-16.3"	-28.0"	-35.6"
TRAJ: 100 m. zero	-.8"	2.4"	0.0	-9.1"	-19.3"	-26.0"
TRAJ: 150 m. zero	-.8"	5.4"	6.1"	0.0	-8.2"	-13.9"
TRAJ: 200 yds. zero	-.8"	7.7"	10.5"	6.7"	0.0	-5.0"
TRAJ: 200 m. zero	-.8"	8.9"	13.0"	10.4"	4.5"	0.0
VELOCITY (fps)	1400	1277	1174	1093	1050	1031
ENERGY (ft.-lbs.)	783	652	551	477	441	425
TRAJ: 50 m. zero	-.8"	0.0	-5.6"	-18.7"	-32.0"	-40.4"
TRAJ: 100 m. zero	-.8"	2.8"	0.0	-10.3"	-21.8"	-29.3"
TRAJ: 150 m. zero	-.8"	6.2"	6.9"	0.0	-9.2"	-15.5"
TRAJ: 200 yds. zero	-.8"	8.7"	11.9"	7.5"	0.0	-5.5"
TRAJ: 200 m. zero	-.8"	10.1"	14.6"	11.6"	5.0"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1300	1193	1108	1042	1007	991
ENERGY (ft.-lbs.)	675	569	490	434	405	392
TRAJ: 50 m. zero	-.8"	0.0	-6.5"	-21.4"	-36.4"	-45.9"
TRAJ: 100 m. zero	-.8"	3.3"	0.0	-11.7"	-24.5"	-32.9"
TRAJ: 150 m. zero	-.8"	7.1"	7.8"	0.0	-10.2"	-17.3"
TRAJ: 200 yds. zero	-.8"	9.9"	13.4"	8.4"	0.0	-6.1"
TRAJ: 200 m. zero	-.8"	11.5"	16.4"	13.0"	5.6"	0.0
VELOCITY (fps)	1200	1113	1046	994	965	951
ENERGY (ft.-lbs.)	575	495	438	395	372	361
TRAJ: 50 m. zero	-.8"	0.0	-7.6"	-24.6"	-41.4"	-52.1"
TRAJ: 100 m. zero	-.8"	3.8"	0.0	-13.2"	-27.6"	-36.9"
TRAJ: 150 m. zero	-.8"	8.2"	8.8"	0.0	-11.4"	-19.2"
TRAJ: 200 yds. zero	-.8"	11.3"	15.1"	9.4"	0.0	-6.7"
TRAJ: 200 m. zero	-.8"	13.0"	18.5"	14.4"	6.2"	0.0
VELOCITY (fps)	1100	1036	986	944	919	908
ENERGY (ft.-lbs.)	484	429	388	356	338	329
TRAJ: 50 m. zero	-.8"	0.0	-8.9"	-28.4"	-47.5"	-59.5"
TRAJ: 100 m. zero	-.8"	4.4"	0.0	-15.1"	-31.3"	-41.8"
TRAJ: 150 m. zero	-.8"	9.5"	10.1"	0.0	-12.9"	-21.7"
TRAJ: 200 yds. zero	-.8"	13.0"	17.1"	10.6"	0.0	-7.6"
TRAJ: 200 m. zero	-.8"	14.9"	20.9"	16.2"	6.9"	0.0
VELOCITY (fps)	1000	956	918	884	864	854
ENERGY (ft.-lbs.)	400	365	337	313	298	291
TRAJ: 50 m. zero	-.8"	0.0	-10.6"	-33.4"	-55.6"	-69.6"
TRAJ: 100 m. zero	-.8"	5.3"	0.0	-17.6"	-36.3"	-48.4"
TRAJ: 150 m. zero	-.8"	11.1"	11.7"	0.0	-14.9"	-25.0"
TRAJ: 200 yds. zero	-.8"	15.2"	19.9"	12.2"	0.0	-8.7"
TRAJ: 200 m. zero	-.8"	17.4"	24.2"	18.7"	8.0"	0.0

35 CALIBER (.358" Dia.) 180 GRAIN SINGLE SHOT PISTOL SPIRE POINT
SECTIONAL DENSITY: .201 BALLISTIC COEFFICIENT: .248

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2300	2121	1951	1789	1688	1637
ENERGY (ft.-lbs.)	2114	1798	1520	1279	1138	1071
TRAJ: 50 m. zero	-.8"	0.0	-1.5"	-5.8"	-10.3"	-13.3"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.5"	-7.5"	-10.2"
TRAJ: 150 m. zero	-.8"	1.9"	2.3"	0.0	-3.3"	-5.6"
TRAJ: 200 yds. zero	-.8"	2.8"	4.1"	2.7"	0.0	-2.0"
TRAJ: 200 m. zero	-.8"	3.3"	5.1"	4.2"	1.8"	0.0
VELOCITY (fps)	2200	2026	1860	1703	1606	1558
ENERGY (ft.-lbs.)	1934	1640	1382	1160	1031	970
TRAJ: 50 m. zero	-.8"	0.0	-1.7"	-6.5"	-11.5"	-14.8"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-3.9"	-8.3"	-11.4"
TRAJ: 150 m. zero	-.8"	2.2"	2.6"	0.0	-3.6"	-6.2"
TRAJ: 200 yds. zero	-.8"	3.2"	4.6"	3.0"	0.0	-2.2"
TRAJ: 200 m. zero	-.8"	3.7"	5.7"	4.6"	2.0"	0.0
VELOCITY (fps)	2100	1930	1770	1619	1526	1480
ENERGY (ft.-lbs.)	1762	1489	1252	1048	931	876
TRAJ: 50 m. zero	-.8"	0.0	-2.0"	-7.3"	-12.9"	-16.6"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.3"	-9.3"	-12.6"
TRAJ: 150 m. zero	-.8"	2.4"	2.9"	0.0	-4.0"	-6.9"
TRAJ: 200 yds. zero	-.8"	3.5"	5.1"	3.3"	0.0	-2.5"
TRAJ: 200 m. zero	-.8"	4.2"	6.3"	5.1"	2.3"	0.0
VELOCITY (fps)	2000	1836	1681	1537	1449	1405
ENERGY (ft.-lbs.)	1598	1346	1129	944	839	789
TRAJ: 50 m. zero	-.8"	0.0	-2.3"	-8.3"	-14.6"	-18.7"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.8"	-10.4"	-14.1"
TRAJ: 150 m. zero	-.8"	2.8"	3.2"	0.0	-4.5"	-7.6"
TRAJ: 200 yds. zero	-.8"	4.0"	5.7"	3.7"	0.0	-2.7"
TRAJ: 200 m. zero	-.8"	4.7"	7.0"	5.7"	2.5"	0.0
VELOCITY (fps)	1900	1741	1593	1456	1374	1333
ENERGY (ft.-lbs.)	1443	1211	1014	847	754	710
TRAJ: 50 m. zero	-.8"	0.0	-2.6"	-9.4"	-16.4"	-21.0"
TRAJ: 100 m. zero	-.8"	1.3"	0.0	-5.4"	-11.6"	-15.8"
TRAJ: 150 m. zero	-.8"	3.1"	3.6"	0.0	-5.0"	-8.5"
TRAJ: 200 yds. zero	-.8"	4.5"	6.4"	4.1"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.3"	7.9"	6.4"	2.8"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1800	1647	1506	1378	1302	1265
ENERGY (ft.-lbs.)	1295	1085	906	759	677	640
TRAJ: 50 m. zero	-.8"	0.0	-3.0"	-10.7"	-18.6"	-23.8"
TRAJ: 100 m. zero	-.8"	1.5"	0.0	-6.1"	-13.1"	-17.7"
TRAJ: 150 m. zero	-.8"	3.6"	4.1"	0.0	-5.6"	-9.6"
TRAJ: 200 yds. zero	-.8"	5.1"	7.1"	4.6"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	5.9"	8.9"	7.2"	3.1"	0.0
VELOCITY (fps)	1700	1555	1421	1303	1234	1202
ENERGY (ft.-lbs.)	1155	966	807	678	609	577
TRAJ: 50 m. zero	-.8"	0.0	-3.5"	-12.2"	-21.1"	-27.0"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-6.9"	-14.7"	-20.0"
TRAJ: 150 m. zero	-.8"	4.1"	4.6"	0.0	-6.3"	-10.7"
TRAJ: 200 yds. zero	-.8"	5.8"	8.1"	5.2"	0.0	-3.8"
TRAJ: 200 m. zero	-.8"	6.7"	10.0"	8.1"	3.5"	0.0
VELOCITY (fps)	1600	1463	1339	1232	1172	1144
ENERGY (ft.-lbs.)	1023	855	717	607	549	523
TRAJ: 50 m. zero	-.8"	0.0	-4.1"	-13.9"	-24.1"	-30.7"
TRAJ: 100 m. zero	-.8"	2.0"	0.0	-7.8"	-16.7"	-22.5"
TRAJ: 150 m. zero	-.8"	4.6"	5.2"	0.0	-7.1"	-12.1"
TRAJ: 200 yds. zero	-.8"	6.6"	9.1"	5.8"	0.0	-4.3"
TRAJ: 200 m. zero	-.8"	7.7"	11.3"	9.1"	3.9"	0.0
VELOCITY (fps)	1500	1372	1260	1167	1115	1092
ENERGY (ft.-lbs.)	899	753	635	544	497	476
TRAJ: 50 m. zero	-.8"	0.0	-4.7"	-16.0"	-27.5"	-34.9"
TRAJ: 100 m. zero	-.8"	2.4"	0.0	-8.9"	-18.9"	-25.4"
TRAJ: 150 m. zero	-.8"	5.3"	5.9"	0.0	-8.0"	-13.6"
TRAJ: 200 yds. zero	-.8"	7.5"	10.3"	6.6"	0.0	-4.8"
TRAJ: 200 m. zero	-.8"	8.7"	12.7"	10.2"	4.4"	0.0
VELOCITY (fps)	1400	1284	1186	1107	1065	1046
ENERGY (ft.-lbs.)	783	659	562	490	453	437
TRAJ: 50 m. zero	-.8"	0.0	-5.5"	-18.4"	-31.4"	-39.7"
TRAJ: 100 m. zero	-.8"	2.8"	0.0	-10.1"	-21.3"	-28.7"
TRAJ: 150 m. zero	-.8"	6.1"	6.8"	0.0	-9.0"	-15.2"
TRAJ: 200 yds. zero	-.8"	8.6"	11.7"	7.4"	0.0	-5.4"
TRAJ: 200 m. zero	-.8"	9.9"	14.4"	11.4"	4.9"	0.0

35 CALIBER (.358" Dia.) 200 GRAIN SPIRE POINT
SECTIONAL DENSITY: .223 BALLISTIC COEFFICIENT: .282

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2200	2046	1899	1759	1671	1627
ENERGY (ft.-lbs.)	2149	1859	1601	1374	1240	1175
TRAJ: 50 m. zero	-.8"	0.0	-1.7"	-6.3"	-11.1"	-14.2"
TRAJ: 100 m. zero	-.8"	0.8"	0.0	-3.7"	-8.0"	-10.8"
TRAJ: 150 m. zero	-.8"	2.1"	2.5"	0.0	-3.4"	-5.9"
TRAJ: 200 yds. zero	-.8"	3.0"	4.4"	2.8"	0.0	-2.1"
TRAJ: 200 m. zero	-.8"	3.5"	5.4"	4.4"	1.9"	0.0
VELOCITY (fps)	2100	1950	1808	1672	1588	1546
ENERGY (ft.-lbs.)	1958	1689	1451	1242	1120	1061
TRAJ: 50 m. zero	-.8"	0.0	-1.9"	-7.1"	-12.4"	-15.9"
TRAJ: 100 m. zero	-.8"	1.0"	0.0	-4.2"	-8.9"	-12.0"
TRAJ: 150 m. zero	-.8"	2.4"	2.8"	0.0	-3.8"	-6.5"
TRAJ: 200 yds. zero	-.8"	3.4"	4.9"	3.1"	0.0	-2.3"
TRAJ: 200 m. zero	-.8"	4.0"	6.0"	4.9"	2.1"	0.0
VELOCITY (fps)	2000	1855	1717	1587	1507	1467
ENERGY (ft.-lbs.)	1776	1528	1309	1119	1008	955
TRAJ: 50 m. zero	-.8"	0.0	-2.2"	-8.0"	-14.0"	-17.9"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.6"	-9.9"	-13.4"
TRAJ: 150 m. zero	-.8"	2.7"	3.1"	0.0	-4.2"	-7.2"
TRAJ: 200 yds. zero	-.8"	3.8"	5.4"	3.5"	0.0	-2.6"
TRAJ: 200 m. zero	-.8"	4.5"	6.7"	5.4"	2.4"	0.0
VELOCITY (fps)	1900	1760	1627	1504	1428	1391
ENERGY (ft.-lbs.)	1603	1375	1176	1004	906	859
TRAJ: 50 m. zero	-.8"	0.0	-2.6"	-9.1"	-15.8"	-20.1"
TRAJ: 100 m. zero	-.8"	1.3"	0.0	-5.2"	-11.1"	-15.0"
TRAJ: 150 m. zero	-.8"	3.0"	3.5"	0.0	-4.7"	-8.1"
TRAJ: 200 yds. zero	-.8"	4.3"	6.1"	3.9"	0.0	-2.9"
TRAJ: 200 m. zero	-.8"	5.0"	7.5"	6.1"	2.6"	0.0

Hornady
HANDBOOK

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1800	1665	1539	1423	1352	1317
ENERGY (ft.-lbs.)	1439	1231	1052	899	812	771
TRAJ: 50 m. zero	-.8"	0.0	-3.0"	-10.3"	-17.9"	-22.8"
TRAJ: 100 m. zero	-.8"	1.5"	0.0	-5.9"	-12.5"	-16.9"
TRAJ: 150 m. zero	-.8"	3.4"	3.9"	0.0	-5.3"	-9.1"
TRAJ: 200 yds. zero	-.8"	4.9"	6.8"	4.4"	0.0	-3.2"
TRAJ: 200 m. zero	-.8"	5.7"	8.4"	6.8"	3.0"	0.0
VELOCITY (fps)	1700	1571	1452	1344	1279	1248
ENERGY (ft.-lbs.)	1283	1096	937	802	727	692
TRAJ: 50 m. zero	-.8"	0.0	-3.4"	-11.8"	-20.3"	-25.9"
TRAJ: 100 m. zero	-.8"	1.7"	0.0	-6.6"	-14.1"	-19.0"
TRAJ: 150 m. zero	-.8"	3.9"	4.4"	0.0	-6.0"	-10.2"
TRAJ: 200 yds. zero	-.8"	5.6"	7.7"	4.9"	0.0	-3.6"
TRAJ: 200 m. zero	-.8"	6.5"	9.5"	7.6"	3.3"	0.0
VELOCITY (fps)	1600	1479	1368	1269	1211	1184
ENERGY (ft.-lbs.)	1137	971	831	715	651	622
TRAJ: 50 m. zero	-.8"	0.0	-4.0"	-13.5"	-23.2"	-29.5"
TRAJ: 100 m. zero	-.8"	2.0"	0.0	-7.5"	-16.0"	-21.5"
TRAJ: 150 m. zero	-.8"	4.5"	5.0"	0.0	-6.8"	-11.5"
TRAJ: 200 yds. zero	-.8"	6.3"	8.7"	5.6"	0.0	-4.1"
TRAJ: 200 m. zero	-.8"	7.4"	10.8"	8.6"	3.7"	0.0
VELOCITY (fps)	1500	1387	1286	1198	1149	1126
ENERGY (ft.-lbs.)	999	854	734	638	586	562
TRAJ: 50 m. zero	-.8"	0.0	-4.6"	-15.5"	-26.6"	-33.6"
TRAJ: 100 m. zero	-.8"	2.3"	0.0	-8.6"	-18.1"	-24.4"
TRAJ: 150 m. zero	-.8"	5.2"	5.7"	0.0	-7.7"	-13.0"
TRAJ: 200 yds. zero	-.8"	7.3"	9.9"	6.3"	0.0	-4.6"
TRAJ: 200 m. zero	-.8"	8.4"	12.2"	9.7"	4.2"	0.0
VELOCITY (fps)	1400	1297	1208	1133	1092	1073
ENERGY (ft.-lbs.)	870	747	648	570	530	512
TRAJ: 50 m. zero	-.8"	0.0	-5.4"	-17.9"	-30.4"	-38.4"
TRAJ: 100 m. zero	-.8"	2.7"	0.0	-9.8"	-20.6"	-27.7"
TRAJ: 150 m. zero	-.8"	6.0"	6.5"	0.0	-8.6"	-14.6"
TRAJ: 200 yds. zero	-.8"	8.3"	11.3"	7.1"	0.0	-5.2"
TRAJ: 200 m. zero	-.8"	9.6"	13.8"	11.0"	4.7"	0.0
VELOCITY (fps)	1300	1210	1135	1075	1042	1026
ENERGY (ft.-lbs.)	750	650	572	513	482	467
TRAJ: 50 m. zero	-.8"	0.0	-6.3"	-20.6"	-34.9"	-43.9"
TRAJ: 100 m. zero	-.8"	3.1"	0.0	-11.2"	-23.4"	-31.3"
TRAJ: 150 m. zero	-.8"	6.9"	7.5"	0.0	-9.7"	-16.4"
TRAJ: 200 yds. zero	-.8"	9.5"	12.8"	8.0"	0.0	-5.8"
TRAJ: 200 m. zero	-.8"	11.0"	15.7"	12.3"	5.3"	0.0

35 CALIBER (.358" Dia.) 200 GRAIN ROUND NOSE
SECTIONAL DENSITY: .223 BALLISTIC COEFFICIENT: .195

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2200	1980	1774	1584	1469	1413
ENERGY (ft.-lbs.)	2149	1740	1397	1114	958	887
TRAJ: 50 m. zero	-.8"	0.0	-1.9"	-7.0"	-12.7"	-16.4"
TRAJ: 100 m. zero	-.8"	0.9"	0.0	-4.2"	-9.3"	-12.7"
TRAJ: 150 m. zero	-.8"	2.3"	2.8"	0.0	-4.1"	-7.0"
TRAJ: 200 yds. zero	-.8"	3.5"	5.1"	3.3"	0.0	-2.5"
TRAJ: 200 m. zero	-.8"	4.1"	6.3"	5.2"	2.3"	0.0
VELOCITY (fps)	2100	1886	1687	1505	1397	1345
ENERGY (ft.-lbs.)	1958	1579	1263	1006	866	803
TRAJ: 50 m. zero	-.8"	0.0	-2.1"	-7.9"	-14.2"	-18.4"
TRAJ: 100 m. zero	-.8"	1.1"	0.0	-4.7"	-10.3"	-14.1"
TRAJ: 150 m. zero	-.8"	2.6"	3.2"	0.0	-4.5"	-7.8"
TRAJ: 200 yds. zero	-.8"	3.9"	5.6"	3.7"	0.0	-2.8"
TRAJ: 200 m. zero	-.8"	4.6"	7.0"	5.8"	2.6"	0.0
VELOCITY (fps)	2000	1792	1601	1429	1328	1280
ENERGY (ft.-lbs.)	1776	1427	1138	906	783	727
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-9.0"	-16.0"	-20.6"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-5.3"	-11.5"	-15.7"
TRAJ: 150 m. zero	-.8"	3.0"	3.5"	0.0	-5.0"	-8.6"
TRAJ: 200 yds. zero	-.8"	4.4"	6.3"	4.1"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.2"	7.9"	6.5"	2.9"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1900	1700	1517	1355	1262	1219
ENERGY (ft.-lbs.)	1603	1283	1021	815	707	659
TRAJ: 50 m. zero	-.8"	0.0	-2.8"	-10.2"	-18.0"	-23.2"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.9"	-12.9"	-17.6"
TRAJ: 150 m. zero	-.8"	3.4"	4.0"	0.0	-5.6"	-9.6"
TRAJ: 200 yds. zero	-.8"	4.9"	7.0"	4.6"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	5.8"	8.8"	7.2"	3.2"	0.0
VELOCITY (fps)	1800	1608	1435	1285	1201	1163
ENERGY (ft.-lbs.)	1439	1148	914	733	641	601
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-11.5"	-20.4"	-26.2"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.7"	-14.4"	-19.7"
TRAJ: 150 m. zero	-.8"	3.8"	4.5"	0.0	-6.3"	-10.8"
TRAJ: 200 yds. zero	-.8"	5.6"	7.9"	5.2"	0.0	-3.9"
TRAJ: 200 m. zero	-.8"	6.5"	9.8"	8.1"	3.6"	0.0
VELOCITY (fps)	1700	1517	1355	1219	1146	1113
ENERGY (ft.-lbs.)	1283	1022	815	660	583	550
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-13.1"	-23.1"	-29.6"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.5"	-16.2"	-22.1"
TRAJ: 150 m. zero	-.8"	4.4"	5.0"	0.0	-7.0"	-12.0"
TRAJ: 200 yds. zero	-.8"	6.3"	8.9"	5.8"	0.0	-4.3"
TRAJ: 200 m. zero	-.8"	7.4"	11.0"	9.0"	4.0"	0.0
VELOCITY (fps)	1600	1428	1279	1158	1096	1069
ENERGY (ft.-lbs.)	1137	905	726	596	534	507
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-15.0"	-26.1"	-33.4"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-8.5"	-18.3"	-24.8"
TRAJ: 150 m. zero	-.8"	5.0"	5.7"	0.0	-7.9"	-13.4"
TRAJ: 200 yds. zero	-.8"	7.1"	10.0"	6.5"	0.0	-4.8"
TRAJ: 200 m. zero	-.8"	8.4"	12.4"	10.1"	4.4"	0.0
VELOCITY (fps)	1500	1340	1207	1104	1052	1029
ENERGY (ft.-lbs.)	999	798	647	541	492	470
TRAJ: 50 m. zero	-.8"	0.0	-5.0"	-17.1"	-29.6"	-37.7"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-9.6"	-20.5"	-27.7"
TRAJ: 150 m. zero	-.8"	5.7"	6.4"	0.0	-8.8"	-14.9"
TRAJ: 200 yds. zero	-.8"	8.1"	11.2"	7.2"	0.0	-5.3"
TRAJ: 200 m. zero	-.8"	9.4"	13.9"	11.2"	4.9"	0.0
VELOCITY (fps)	1400	1256	1141	1056	1012	993
ENERGY (ft.-lbs.)	870	700	578	495	455	437
TRAJ: 50 m. zero	-.8"	0.0	-5.8"	-19.6"	-33.6"	-42.5"
TRAJ: 100 m. zero	-.8"	2.9"	0.0	-10.9"	-23.0"	-30.9"
TRAJ: 150 m. zero	-.8"	6.5"	7.2"	0.0	-9.7"	-16.5"
TRAJ: 200 yds. zero	-.8"	9.2"	12.6"	8.0"	0.0	-5.8"
TRAJ: 200 m. zero	-.8"	10.6"	15.5"	12.3"	5.3"	0.0
VELOCITY (fps)	1300	1175	1081	1011	975	958
ENERGY (ft.-lbs.)	750	613	519	454	422	407
TRAJ: 50 m. zero	-.8"	0.0	-6.7"	-22.3"	-37.9"	-47.9"
TRAJ: 100 m. zero	-.8"	3.4"	0.0	-12.2"	-25.6"	-34.5"
TRAJ: 150 m. zero	-.8"	7.4"	8.1"	0.0	-10.8"	-18.2"
TRAJ: 200 yds. zero	-.8"	10.4"	14.0"	8.8"	0.0	-6.4"
TRAJ: 200 m. zero	-.8"	12.0"	17.2"	13.6"	5.9"	0.0

10MM CALIBER (.400" Dia.) 180 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .161 BALLISTIC COEFFICIENT: .164

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1400	1232	1105	1018	974	954
ENERGY (ft.-lbs.)	783	606	488	414	379	363
TRAJ: 50 m. zero	-.8"	0.0	-6.1"	-20.6"	-35.4"	-44.9"
TRAJ: 100 m. zero	-.8"	3.0"	0.0	-11.5"	-24.3"	-32.8"
TRAJ: 150 m. zero	-.8"	6.9"	7.7"	0.0	-10.3"	-17.5"
TRAJ: 200 yds. zero	-.8"	9.7"	13.3"	8.5"	0.0	-6.2"
TRAJ: 200 m. zero	-.8"	11.2"	16.4"	13.1"	5.7"	0.0
VELOCITY (fps)	1300	1155	1052	980	941	923
ENERGY (ft.-lbs.)	675	533	442	383	354	341
TRAJ: 50 m. zero	-.8"	0.0	-7.0"	-23.3"	-39.7"	-50.2"
TRAJ: 100 m. zero	-.8"	3.5"	0.0	-12.8"	-26.9"	-36.2"
TRAJ: 150 m. zero	-.8"	7.8"	8.5"	0.0	-11.3"	-19.2"
TRAJ: 200 yds. zero	-.8"	10.9"	14.7"	9.3"	0.0	-6.8"
TRAJ: 200 m. zero	-.8"	12.5"	18.1"	14.4"	6.2"	0.0

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RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1200	1083	1002	941	908	891
ENERGY (ft.-lbs.)	575	469	401	354	329	318
TRAJ: 50 m. zero	-.8"	0.0	-8.0"	-26.3"	-44.6"	-56.2"
TRAJ: 100 m. zero	-.8"	4.0"	0.0	-14.3"	-29.9"	-40.1"
TRAJ: 150 m. zero	-.8"	8.8"	9.5"	0.0	-12.5"	-21.1"
TRAJ: 200 yds. zero	-.8"	12.2"	16.3"	10.2"	0.0	-7.4"
TRAJ: 200 m. zero	-.8"	14.0"	20.1"	15.8"	6.8"	0.0
VELOCITY (fps)	1100	1014	951	899	870	855
ENERGY (ft.-lbs.)	484	411	361	323	302	292
TRAJ: 50 m. zero	-.8"	0.0	-9.3"	-30.0"	-50.5"	-63.4"
TRAJ: 100 m. zero	-.8"	4.6"	0.0	-16.1"	-33.5"	-44.9"
TRAJ: 150 m. zero	-.8"	10.0"	10.7"	0.0	-13.9"	-23.5"
TRAJ: 200 yds. zero	-.8"	13.8"	18.3"	11.4"	0.0	-8.3"
TRAJ: 200 m. zero	-.8"	15.9"	22.4"	17.6"	7.6"	0.0
VELOCITY (fps)	1000	940	890	847	821	808
ENERGY (ft.-lbs.)	400	353	316	287	269	261
TRAJ: 50 m. zero	-.8"	0.0	-11.0"	-35.0"	-58.6"	-73.5"
TRAJ: 100 m. zero	-.8"	5.5"	0.0	-18.6"	-38.6"	-51.6"
TRAJ: 150 m. zero	-.8"	11.7"	12.4"	0.0	-15.9"	-26.8"
TRAJ: 200 yds. zero	-.8"	16.0"	21.1"	13.0"	0.0	-9.4"
TRAJ: 200 m. zero	-.8"	18.4"	25.8"	20.1"	8.6"	0.0

10MM CALIBER (.400" Dia.) 200 GRAIN FULL METAL JACKET FLAT POINT
SECTIONAL DENSITY: .179 BALLISTIC COEFFICIENT: .182

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1300	1167	1069	999	962	944
ENERGY (ft.-lbs.)	750	605	508	443	411	396
TRAJ: 50 m. zero	-.8"	0.0	-6.8"	-22.7"	-38.6"	-48.8"
TRAJ: 100 m. zero	-.8"	3.4"	0.0	-12.4"	-26.1"	-35.1"
TRAJ: 150 m. zero	-.8"	7.6"	8.3"	0.0	-11.0"	-18.6"
TRAJ: 200 yds. zero	-.8"	10.6"	14.3"	9.0"	0.0	-6.6"
TRAJ: 200 m. zero	-.8"	12.2"	17.6"	13.9"	6.0"	0.0
VELOCITY (fps)	1200	1093	1016	958	926	910
ENERGY (ft.-lbs.)	639	530	459	407	380	368
TRAJ: 50 m. zero	-.8"	0.0	-7.9"	-25.7"	-43.5"	-54.8"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-13.9"	-29.1"	-39.0"
TRAJ: 150 m. zero	-.8"	8.6"	9.3"	0.0	-12.1"	-20.5"
TRAJ: 200 yds. zero	-.8"	11.9"	15.9"	10.0"	0.0	-7.2"
TRAJ: 200 m. zero	-.8"	13.7"	19.5"	15.3"	6.6"	0.0
VELOCITY (fps)	1100	1021	962	914	886	872
ENERGY (ft.-lbs.)	537	463	411	371	348	338
TRAJ: 50 m. zero	-.8"	0.0	-9.1"	-29.5"	-49.5"	-62.1"
TRAJ: 100 m. zero	-.8"	4.6"	0.0	-15.7"	-32.8"	-43.8"
TRAJ: 150 m. zero	-.8"	9.8"	10.5"	0.0	-13.6"	-22.8"
TRAJ: 200 yds. zero	-.8"	13.5"	17.9"	11.1"	0.0	-8.0"
TRAJ: 200 m. zero	-.8"	15.5"	21.9"	17.1"	7.3"	0.0
VELOCITY (fps)	1000	945	899	859	835	823
ENERGY (ft.-lbs.)	444	397	359	328	310	301
TRAJ: 50 m. zero	-.8"	0.0	-10.8"	-34.5"	-57.6"	-72.2"
TRAJ: 100 m. zero	-.8"	5.4"	0.0	-18.2"	-37.8"	-50.5"
TRAJ: 150 m. zero	-.8"	11.5"	12.2"	0.0	-15.6"	-26.2"
TRAJ: 200 yds. zero	-.8"	15.7"	20.7"	12.8"	0.0	-9.2"
TRAJ: 200 m. zero	-.8"	18.0"	25.3"	19.6"	8.4"	0.0
VELOCITY (fps)	900	860	824	791	770	760
ENERGY (ft.-lbs.)	360	328	301	278	263	256
TRAJ: 50 m. zero	-.8"	0.0	-13.3"	-41.8"	-69.5"	-86.9"
TRAJ: 100 m. zero	-.8"	6.6"	0.0	-21.9"	-45.3"	-60.4"
TRAJ: 150 m. zero	-.8"	13.9"	14.6"	0.0	-18.6"	-31.2"
TRAJ: 200 yds. zero	-.8"	19.0"	24.8"	15.2"	0.0	-10.9"
TRAJ: 200 m. zero	-.8"	21.7"	30.2"	23.4"	10.0"	0.0
VELOCITY (fps)	800	769	739	711	694	685
ENERGY (ft.-lbs.)	284	262	243	225	214	208
TRAJ: 50 m. zero	-.8"	0.0	-16.8"	-52.6"	-87.2"	-108.9"
TRAJ: 100 m. zero	-.8"	8.4"	0.0	-27.4"	-56.5"	-75.4"
TRAJ: 150 m. zero	-.8"	17.5"	18.3"	0.0	-23.1"	-38.8"
TRAJ: 200 yds. zero	-.8"	23.8"	30.9"	19.0"	0.0	-13.5"
TRAJ: 200 m. zero	-.8"	27.2"	37.7"	29.1"	12.4"	0.0

10MM CALIBER (.400" Dia.) 200 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .179 BALLISTIC COEFFICIENT: .199

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1300	1177	1084	1015	979	962
ENERGY (ft.-lbs.)	750	615	522	458	425	411
TRAJ: 50 m. zero	-.8"	0.0	-6.7"	-22.2"	-37.7"	-47.6"
TRAJ: 100 m. zero	-.8"	3.3"	0.0	-12.1"	-25.5"	-34.3"
TRAJ: 150 m. zero	-.8"	7.4"	8.1"	0.0	-10.7"	-18.1"
TRAJ: 200 yds. zero	-.8"	10.3"	13.9"	8.8"	0.0	-6.4"
TRAJ: 200 m. zero	-.8"	11.9"	17.1"	13.5"	5.8"	0.0
VELOCITY (fps)	1200	1101	1028	972	941	926
ENERGY (ft.-lbs.)	639	538	469	419	393	380
TRAJ: 50 m. zero	-.8"	0.0	-7.8"	-25.3"	-42.7"	-53.7"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-13.7"	-28.5"	-38.2"
TRAJ: 150 m. zero	-.8"	8.4"	9.1"	0.0	-11.9"	-20.0"
TRAJ: 200 yds. zero	-.8"	11.7"	15.6"	9.7"	0.0	-7.0"
TRAJ: 200 m. zero	-.8"	13.4"	19.1"	15.0"	6.4"	0.0
VELOCITY (fps)	1100	1027	971	925	899	886
ENERGY (ft.-lbs.)	537	469	419	380	359	348
TRAJ: 50 m. zero	-.8"	0.0	-9.0"	-29.0"	-48.7"	-61.1"
TRAJ: 100 m. zero	-.8"	4.5"	0.0	-15.5"	-32.2"	-43.0"
TRAJ: 150 m. zero	-.8"	9.7"	10.3"	0.0	-13.3"	-22.4"
TRAJ: 200 yds. zero	-.8"	13.3"	17.6"	10.9"	0.0	-7.9"
TRAJ: 200 m. zero	-.8"	15.3"	21.5"	16.8"	7.2"	0.0
VELOCITY (fps)	1000	949	907	869	846	835
ENERGY (ft.-lbs.)	444	400	365	335	318	310
TRAJ: 50 m. zero	-.8"	0.0	-10.7"	-34.1"	-56.8"	-71.1"
TRAJ: 100 m. zero	-.8"	5.4"	0.0	-18.0"	-37.2"	-49.7"
TRAJ: 150 m. zero	-.8"	11.4"	12.0"	0.0	-15.3"	-25.7"
TRAJ: 200 yds. zero	-.8"	15.5"	20.4"	12.6"	0.0	-9.0"
TRAJ: 200 m. zero	-.8"	17.8"	24.8"	19.3"	8.2"	0.0
VELOCITY (fps)	900	863	830	799	780	770
ENERGY (ft.-lbs.)	360	331	306	283	270	263
TRAJ: 50 m. zero	-.8"	0.0	-13.1"	-41.4"	-68.7"	-85.8"
TRAJ: 100 m. zero	-.8"	6.6"	0.0	-21.7"	-44.7"	-59.5"
TRAJ: 150 m. zero	-.8"	13.8"	14.4"	0.0	-18.3"	-30.7"
TRAJ: 200 yds. zero	-.8"	18.8"	24.4"	15.0"	0.0	-10.7"
TRAJ: 200 m. zero	-.8"	21.5"	29.8"	23.0"	9.8"	0.0
VELOCITY (fps)	800	771	744	718	702	694
ENERGY (ft.-lbs.)	284	264	246	229	219	214
TRAJ: 50 m. zero	-.8"	0.0	-16.7"	-52.1"	-86.3"	-107.7"
TRAJ: 100 m. zero	-.8"	8.3"	0.0	-27.1"	-55.8"	-74.3"
TRAJ: 150 m. zero	-.8"	17.4"	18.1"	0.0	-22.8"	-38.2"
TRAJ: 200 yds. zero	-.8"	23.6"	30.5"	18.7"	0.0	-13.3"
TRAJ: 200 m. zero	-.8"	26.9"	37.2"	28.6"	12.2"	0.0

41 CALIBER (.410" Dia.) 210 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .178 BALLISTIC COEFFICIENT: .182

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1700	1505	1334	1194	1120	1088
ENERGY (ft.-lbs.)	1347	1056	830	664	585	552
TRAJ: 50 m. zero	-.8"	0.0	-3.8"	-13.5"	-23.7"	-30.4"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.8"	-16.8"	-22.8"
TRAJ: 150 m. zero	-.8"	4.5"	5.2"	0.0	-7.3"	-12.5"
TRAJ: 200 yds. zero	-.8"	6.5"	9.2"	6.0"	0.0	-4.5"
TRAJ: 200 m. zero	-.8"	7.6"	11.4"	9.4"	4.1"	0.0
VELOCITY (fps)	1600	1416	1260	1137	1075	1048
ENERGY (ft.-lbs.)	1194	935	740	602	539	512
TRAJ: 50 m. zero	-.8"	0.0	-4.4"	-15.4"	-26.8"	-34.3"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-8.8"	-18.8"	-25.5"
TRAJ: 150 m. zero	-.8"	5.1"	5.8"	0.0	-8.1"	-13.8"
TRAJ: 200 yds. zero	-.8"	7.3"	10.3"	6.7"	0.0	-5.0"
TRAJ: 200 m. zero	-.8"	8.6"	12.8"	10.4"	4.5"	0.0

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RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1500	1330	1190	1086	1034	1011
ENERGY (ft.-lbs.)	1049	825	661	550	499	477
TRAJ: 50 m. zero	-.8"	0.0	-5.1"	-17.5"	-30.4"	-38.7"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-9.9"	-21.1"	-28.5"
TRAJ: 150 m. zero	-.8"	5.8"	6.6"	0.0	-9.0"	-15.3"
TRAJ: 200 yds. zero	-.8"	8.3"	11.5"	7.4"	0.0	-5.5"
TRAJ: 200 m. zero	-.8"	9.7"	14.2"	11.5"	5.0"	0.0
VELOCITY (fps)	1400	1247	1127	1041	997	977
ENERGY (ft.-lbs.)	914	724	592	505	464	445
TRAJ: 50 m. zero	-.8"	0.0	-5.9"	-19.9"	-34.3"	-43.5"
TRAJ: 100 m. zero	-.8"	2.9"	0.0	-11.1"	-23.5"	-31.7"
TRAJ: 150 m. zero	-.8"	6.6"	7.4"	0.0	-10.0"	-16.9"
TRAJ: 200 yds. zero	-.8"	9.4"	12.8"	8.2"	0.0	-6.0"
TRAJ: 200 m. zero	-.8"	10.9"	15.8"	12.7"	5.5"	0.0
VELOCITY (fps)	1300	1167	1069	999	962	944
ENERGY (ft.-lbs.)	788	635	533	465	431	416
TRAJ: 50 m. zero	-.8"	0.0	-6.8"	-22.7"	-38.6"	-48.8"
TRAJ: 100 m. zero	-.8"	3.4"	0.0	-12.4"	-26.1"	-35.1"
TRAJ: 150 m. zero	-.8"	7.6"	8.3"	0.0	-11.0"	-18.6"
TRAJ: 200 yds. zero	-.8"	10.6"	14.3"	9.0"	0.0	-6.6"
TRAJ: 200 m. zero	-.8"	12.2"	17.6"	13.9"	6.0"	0.0
VELOCITY (fps)	1200	1093	1016	958	926	910
ENERGY (ft.-lbs.)	671	557	482	428	400	386
TRAJ: 50 m. zero	-.8"	0.0	-7.9"	-25.7"	-43.5"	-54.8"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-13.9"	-29.1"	-39.0"
TRAJ: 150 m. zero	-.8"	8.6"	9.3"	0.0	-12.1"	-20.5"
TRAJ: 200 yds. zero	-.8"	11.9"	15.9"	10.0"	0.0	-7.2"
TRAJ: 200 m. zero	-.8"	13.7"	19.5"	15.3"	6.6"	0.0
VELOCITY (fps)	1100	1021	962	914	886	872
ENERGY (ft.-lbs.)	564	486	431	389	366	354
TRAJ: 50 m. zero	-.8"	0.0	-9.1"	-29.5"	-49.5"	-62.1"
TRAJ: 100 m. zero	-.8"	4.6"	0.0	-15.7"	-32.8"	-43.8"
TRAJ: 150 m. zero	-.8"	9.8"	10.5"	0.0	-13.6"	-22.8"
TRAJ: 200 yds. zero	-.8"	13.5"	17.9"	11.1"	0.0	-8.0"
TRAJ: 200 m. zero	-.8"	15.5"	21.9"	17.1"	7.3"	0.0
VELOCITY (fps)	1000	945	899	859	835	823
ENERGY (ft.-lbs.)	466	416	377	344	325	316
TRAJ: 50 m. zero	-.8"	0.0	-10.8"	-34.5"	-57.6"	-72.2"
TRAJ: 100 m. zero	-.8"	5.4"	0.0	-18.2"	-37.8"	-50.5"
TRAJ: 150 m. zero	-.8"	11.5"	12.2"	0.0	-15.6"	-26.2"
TRAJ: 200 yds. zero	-.8"	15.7"	20.7"	12.8"	0.0	-9.2"
TRAJ: 200 m. zero	-.8"	18.0"	25.3"	19.6"	8.4"	0.0

41 CALIBER (.410" Dia.) 210 GRAIN JACKETED TRUNCATED CONE SILHOUETTE
SECTIONAL DENSITY: .178 BALLISTIC COEFFICIENT: .187

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1700	1510	1342	1204	1130	1098
ENERGY (ft.-lbs.)	1347	1063	840	675	596	562
TRAJ: 50 m. zero	-.8"	0.0	-3.8"	-13.3"	-23.5"	-30.1"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.7"	-16.5"	-22.5"
TRAJ: 150 m. zero	-.8"	4.4"	5.1"	0.0	-7.2"	-12.3"
TRAJ: 200 yds. zero	-.8"	6.4"	9.0"	5.9"	0.0	-4.4"
TRAJ: 200 m. zero	-.8"	7.5"	11.3"	9.2"	4.1"	0.0
VELOCITY (fps)	1600	1421	1267	1145	1083	1056
ENERGY (ft.-lbs.)	1194	941	749	612	547	520
TRAJ: 50 m. zero	-.8"	0.0	-4.4"	-15.2"	-26.6"	-34.0"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-8.7"	-18.6"	-25.2"
TRAJ: 150 m. zero	-.8"	5.1"	5.8"	0.0	-8.0"	-13.7"
TRAJ: 200 yds. zero	-.8"	7.3"	10.2"	6.6"	0.0	-4.9"
TRAJ: 200 m. zero	-.8"	8.5"	12.6"	10.3"	4.5"	0.0
VELOCITY (fps)	1500	1334	1197	1093	1041	1018
ENERGY (ft.-lbs.)	1049	830	668	557	506	483
TRAJ: 50 m. zero	-.8"	0.0	-5.1"	-17.4"	-30.1"	-38.3"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-9.8"	-20.8"	-28.2"
TRAJ: 150 m. zero	-.8"	5.8"	6.5"	0.0	-8.9"	-15.1"
TRAJ: 200 yds. zero	-.8"	8.2"	11.4"	7.3"	0.0	-5.4"
TRAJ: 200 m. zero	-.8"	9.6"	14.1"	11.4"	4.9"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1400	1250	1132	1047	1003	983
ENERGY (ft.-lbs.)	914	729	598	511	469	451
TRAJ: 50 m. zero	-.8"	0.0	-5.9"	-19.8"	-34.0"	-43.1"
TRAJ: 100 m. zero	-.8"	2.9"	0.0	-11.0"	-23.3"	-31.4"
TRAJ: 150 m. zero	-.8"	6.6"	7.3"	0.0	-9.9"	-16.7"
TRAJ: 200 yds. zero	-.8"	9.3"	12.7"	8.1"	0.0	-5.9"
TRAJ: 200 m. zero	-.8"	10.8"	15.7"	12.5"	5.4"	0.0
VELOCITY (fps)	1300	1170	1074	1004	967	949
ENERGY (ft.-lbs.)	788	638	538	470	436	420
TRAJ: 50 m. zero	-.8"	0.0	-6.8"	-22.5"	-38.3"	-48.4"
TRAJ: 100 m. zero	-.8"	3.4"	0.0	-12.3"	-25.9"	-34.9"
TRAJ: 150 m. zero	-.8"	7.5"	8.2"	0.0	-10.9"	-18.4"
TRAJ: 200 yds. zero	-.8"	10.5"	14.2"	8.9"	0.0	-6.5"
TRAJ: 200 m. zero	-.8"	12.1"	17.4"	13.8"	5.9"	0.0
VELOCITY (fps)	1200	1095	1020	962	930	915
ENERGY (ft.-lbs.)	671	559	485	432	403	390
TRAJ: 50 m. zero	-.8"	0.0	-7.8"	-25.6"	-43.3"	-54.5"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-13.9"	-28.9"	-38.8"
TRAJ: 150 m. zero	-.8"	8.5"	9.2"	0.0	-12.0"	-20.3"
TRAJ: 200 yds. zero	-.8"	11.8"	15.8"	9.9"	0.0	-7.2"
TRAJ: 200 m. zero	-.8"	13.6"	19.4"	15.2"	6.5"	0.0
VELOCITY (fps)	1100	1023	965	917	890	876
ENERGY (ft.-lbs.)	564	488	434	392	369	358
TRAJ: 50 m. zero	-.8"	0.0	-9.1"	-29.3"	-49.2"	-61.8"
TRAJ: 100 m. zero	-.8"	4.6"	0.0	-15.7"	-32.6"	-43.6"
TRAJ: 150 m. zero	-.8"	9.8"	10.4"	0.0	-13.5"	-22.7"
TRAJ: 200 yds. zero	-.8"	13.5"	17.8"	11.0"	0.0	-8.0"
TRAJ: 200 m. zero	-.8"	15.5"	21.8"	17.0"	7.3"	0.0
VELOCITY (fps)	1000	946	901	862	839	827
ENERGY (ft.-lbs.)	466	418	379	347	328	319
TRAJ: 50 m. zero	-.8"	0.0	-10.8"	-34.3"	-57.4"	-71.8"
TRAJ: 100 m. zero	-.8"	5.4"	0.0	-18.2"	-37.6"	-50.3"
TRAJ: 150 m. zero	-.8"	11.4"	12.1"	0.0	-15.5"	-26.0"
TRAJ: 200 yds. zero	-.8"	15.7"	20.6"	12.7"	0.0	-9.1"
TRAJ: 200 m. zero	-.8"	18.0"	25.1"	19.5"	8.3"	0.0

44 CALIBER (.430" Dia.) 200 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .155 BALLISTIC COEFFICIENT: .170

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2000	1763	1548	1360	1254	1205
ENERGY (ft.-lbs.)	1776	1380	1064	821	698	645
TRAJ: 50 m. zero	-.8"	0.0	-2.6"	-9.5"	-17.0"	-22.1"
TRAJ: 100 m. zero	-.8"	1.3"	0.0	-5.6"	-12.3"	-16.9"
TRAJ: 150 m. zero	-.8"	3.2"	3.8"	0.0	-5.5"	-9.4"
TRAJ: 200 yds. zero	-.8"	4.7"	6.7"	4.5"	0.0	-3.4"
TRAJ: 200 m. zero	-.8"	5.5"	8.5"	7.1"	3.1"	0.0
VELOCITY (fps)	1900	1672	1467	1291	1196	1153
ENERGY (ft.-lbs.)	1603	1241	955	740	635	590
TRAJ: 50 m. zero	-.8"	0.0	-2.9"	-10.7"	-19.2"	-24.8"
TRAJ: 100 m. zero	-.8"	1.5"	0.0	-6.3"	-13.8"	-18.9"
TRAJ: 150 m. zero	-.8"	3.6"	4.2"	0.0	-6.1"	-10.5"
TRAJ: 200 yds. zero	-.8"	5.2"	7.5"	5.0"	0.0	-3.8"
TRAJ: 200 m. zero	-.8"	6.2"	9.5"	7.9"	3.5"	0.0
VELOCITY (fps)	1800	1581	1388	1227	1143	1106
ENERGY (ft.-lbs.)	1439	1110	855	669	580	543
TRAJ: 50 m. zero	-.8"	0.0	-3.4"	-12.2"	-21.6"	-27.9"
TRAJ: 100 m. zero	-.8"	1.7"	0.0	-7.1"	-15.5"	-21.1"
TRAJ: 150 m. zero	-.8"	4.1"	4.7"	0.0	-6.8"	-11.7"
TRAJ: 200 yds. zero	-.8"	5.9"	8.5"	5.6"	0.0	-4.2"
TRAJ: 200 m. zero	-.8"	7.0"	10.6"	8.7"	3.9"	0.0
VELOCITY (fps)	1700	1492	1312	1168	1096	1065
ENERGY (ft.-lbs.)	1283	988	764	606	533	503
TRAJ: 50 m. zero	-.8"	0.0	-3.9"	-13.8"	-24.4"	-31.4"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-8.0"	-17.3"	-23.6"
TRAJ: 150 m. zero	-.8"	4.6"	5.3"	0.0	-7.6"	-12.9"
TRAJ: 200 yds. zero	-.8"	6.7"	9.5"	6.2"	0.0	-4.7"
TRAJ: 200 m. zero	-.8"	7.8"	11.8"	9.7"	4.3"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1600	1404	1240	1115	1054	1028
ENERGY (ft.-lbs.)	1137	876	683	552	493	469
TRAJ: 50 m. zero	-.8"	0.0	-4.5"	-15.7"	-27.6"	-35.3"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-9.0"	-19.4"	-26.3"
TRAJ: 150 m. zero	-.8"	5.2"	6.0"	0.0	-8.4"	-14.3"
TRAJ: 200 yds. zero	-.8"	7.5"	10.6"	6.9"	0.0	-5.1"
TRAJ: 200 m. zero	-.8"	8.8"	13.2"	10.7"	4.7"	0.0
VELOCITY (fps)	1500	1319	1174	1068	1017	994
ENERGY (ft.-lbs.)	999	772	611	507	459	438
TRAJ: 50 m. zero	-.8"	0.0	-5.2"	-17.9"	-31.1"	-39.6"
TRAJ: 100 m. zero	-.8"	2.6"	0.0	-10.1"	-21.6"	-29.3"
TRAJ: 150 m. zero	-.8"	6.0"	6.8"	0.0	-9.3"	-15.7"
TRAJ: 200 yds. zero	-.8"	8.5"	11.8"	7.6"	0.0	-5.6"
TRAJ: 200 m. zero	-.8"	9.9"	14.6"	11.8"	5.1"	0.0
VELOCITY (fps)	1400	1237	1113	1026	982	962
ENERGY (ft.-lbs.)	870	679	550	467	428	411
TRAJ: 50 m. zero	-.8"	0.0	-6.0"	-20.3"	-35.0"	-44.4"
TRAJ: 100 m. zero	-.8"	3.0"	0.0	-11.3"	-24.0"	-32.4"
TRAJ: 150 m. zero	-.8"	6.8"	7.6"	0.0	-10.2"	-17.3"
TRAJ: 200 yds. zero	-.8"	9.6"	13.1"	8.4"	0.0	-6.1"
TRAJ: 200 m. zero	-.8"	11.1"	16.2"	13.0"	5.6"	0.0
VELOCITY (fps)	1300	1159	1058	986	948	930
ENERGY (ft.-lbs.)	750	597	497	432	399	384
TRAJ: 50 m. zero	-.8"	0.0	-6.9"	-23.1"	-39.3"	-49.7"
TRAJ: 100 m. zero	-.8"	3.5"	0.0	-12.7"	-26.7"	-35.8"
TRAJ: 150 m. zero	-.8"	7.7"	8.5"	0.0	-11.2"	-18.9"
TRAJ: 200 yds. zero	-.8"	10.7"	14.6"	9.2"	0.0	-6.7"
TRAJ: 200 m. zero	-.8"	12.4"	17.9"	14.2"	6.1"	0.0
VELOCITY (fps)	1200	1087	1007	947	914	898
ENERGY (ft.-lbs.)	639	524	450	398	371	358
TRAJ: 50 m. zero	-.8"	0.0	-8.0"	-26.1"	-44.2"	-55.7"
TRAJ: 100 m. zero	-.8"	4.0"	0.0	-14.2"	-29.6"	-39.7"
TRAJ: 150 m. zero	-.8"	8.7"	9.4"	0.0	-12.4"	-20.9"
TRAJ: 200 yds. zero	-.8"	12.1"	16.2"	10.1"	0.0	-7.3"
TRAJ: 200 m. zero	-.8"	13.9"	19.9"	15.6"	6.7"	0.0
VELOCITY (fps)	1100	1017	955	904	875	861
ENERGY (ft.-lbs.)	537	459	405	363	340	329
TRAJ: 50 m. zero	-.8"	0.0	-9.2"	-29.8"	-50.1"	-63.0"
TRAJ: 100 m. zero	-.8"	4.6"	0.0	-16.0"	-33.2"	-44.5"
TRAJ: 150 m. zero	-.8"	9.9"	10.6"	0.0	-13.8"	-23.2"
TRAJ: 200 yds. zero	-.8"	13.7"	18.2"	11.3"	0.0	-8.2"
TRAJ: 200 m. zero	-.8"	15.7"	22.3"	17.4"	7.5"	0.0
VELOCITY (fps)	1000	941	893	851	826	814
ENERGY (ft.-lbs.)	444	394	354	322	303	294
TRAJ: 50 m. zero	-.8"	0.0	-10.9"	-34.8"	-58.2"	-73.0"
TRAJ: 100 m. zero	-.8"	5.5"	0.0	-18.4"	-38.3"	-51.2"
TRAJ: 150 m. zero	-.8"	11.6"	12.3"	0.0	-15.8"	-26.6"
TRAJ: 200 yds. zero	-.8"	15.9"	20.9"	13.0"	0.0	-9.3"
TRAJ: 200 m. zero	-.8"	18.3"	25.6"	19.9"	8.5"	0.0

44 CALIBER (.430" Dia.) 240 GRAIN XTP HOLLOW POINT
SECTIONAL DENSITY: .185 BALLISTIC COEFFICIENT: .205

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1800	1617	1451	1305	1223	1184
ENERGY (ft.-lbs.)	1726	1393	1121	907	796	747
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-11.3"	-19.9"	-25.6"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.6"	-14.1"	-19.2"
TRAJ: 150 m. zero	-.8"	3.8"	4.4"	0.0	-6.1"	-10.5"
TRAJ: 200 yds. zero	-.8"	5.5"	7.7"	5.0"	0.0	-3.8"
TRAJ: 200 m. zero	-.8"	6.4"	9.6"	7.9"	3.5"	0.0
VELOCITY (fps)	1700	1526	1370	1237	1164	1131
ENERGY (ft.-lbs.)	1540	1240	1000	815	722	682
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-12.9"	-22.6"	-29.0"
TRAJ: 100 m. zero	-.8"	1.8"	0.0	-7.4"	-15.9"	-21.6"
TRAJ: 150 m. zero	-.8"	4.3"	4.9"	0.0	-6.9"	-11.7"
TRAJ: 200 yds. zero	-.8"	6.2"	8.7"	5.6"	0.0	-4.2"
TRAJ: 200 m. zero	-.8"	7.2"	10.8"	8.8"	3.9"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1600	1436	1292	1174	1112	1084
ENERGY (ft.-lbs.)	1364	1098	890	735	659	626
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.7"	-25.7"	-32.8"
TRAJ: 100 m. zero	-.8"	2.1"	0.0	-8.4"	-17.9"	-24.3"
TRAJ: 150 m. zero	-.8"	4.9"	5.6"	0.0	-7.7"	-13.1"
TRAJ: 200 yds. zero	-.8"	7.0"	9.8"	6.3"	0.0	-4.7"
TRAJ: 200 m. zero	-.8"	8.2"	12.1"	9.8"	4.3"	0.0
VELOCITY (fps)	1500	1348	1219	1117	1065	1042
ENERGY (ft.-lbs.)	1199	968	791	665	605	578
TRAJ: 50 m. zero	-.8"	0.0	-4.9"	-16.9"	-29.2"	-37.1"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-9.5"	-20.1"	-27.2"
TRAJ: 150 m. zero	-.8"	5.6"	6.3"	0.0	-8.6"	-14.6"
TRAJ: 200 yds. zero	-.8"	8.0"	11.0"	7.0"	0.0	-5.2"
TRAJ: 200 m. zero	-.8"	9.3"	13.6"	10.9"	4.8"	0.0
VELOCITY (fps)	1400	1262	1151	1067	1023	1004
ENERGY (ft.-lbs.)	1044	849	705	606	558	537
TRAJ: 50 m. zero	-.8"	0.0	-5.7"	-19.3"	-33.1"	-41.9"
TRAJ: 100 m. zero	-.8"	2.9"	0.0	-10.7"	-22.6"	-30.5"
TRAJ: 150 m. zero	-.8"	6.4"	7.1"	0.0	-9.6"	-16.2"
TRAJ: 200 yds. zero	-.8"	9.0"	12.4"	7.8"	0.0	-5.7"
TRAJ: 200 m. zero	-.8"	10.5"	15.2"	12.1"	5.2"	0.0
VELOCITY (fps)	1300	1180	1089	1020	984	967
ENERGY (ft.-lbs.)	900	742	631	555	516	499
TRAJ: 50 m. zero	-.8"	0.0	-6.7"	-22.0"	-37.5"	-47.3"
TRAJ: 100 m. zero	-.8"	3.3"	0.0	-12.1"	-25.3"	-34.0"
TRAJ: 150 m. zero	-.8"	7.3"	8.0"	0.0	-10.6"	-17.9"
TRAJ: 200 yds. zero	-.8"	10.2"	13.8"	8.7"	0.0	-6.3"
TRAJ: 200 m. zero	-.8"	11.8"	17.0"	13.4"	5.8"	0.0
VELOCITY (fps)	1200	1103	1031	976	945	931
ENERGY (ft.-lbs.)	767	649	567	508	476	461
TRAJ: 50 m. zero	-.8"	0.0	-7.7"	-25.2"	-42.4"	-53.4"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-13.6"	-28.3"	-37.9"
TRAJ: 150 m. zero	-.8"	8.4"	9.1"	0.0	-11.8"	-19.8"
TRAJ: 200 yds. zero	-.8"	11.6"	15.5"	9.7"	0.0	-7.0"
TRAJ: 200 m. zero	-.8"	13.3"	19.0"	14.9"	6.4"	0.0
VELOCITY (fps)	1100	1029	974	929	903	890
ENERGY (ft.-lbs.)	645	564	506	460	434	422
TRAJ: 50 m. zero	-.8"	0.0	-9.0"	-28.9"	-48.4"	-60.8"
TRAJ: 100 m. zero	-.8"	4.5"	0.0	-15.4"	-32.0"	-42.8"
TRAJ: 150 m. zero	-.8"	9.6"	10.3"	0.0	-13.2"	-22.2"
TRAJ: 200 yds. zero	-.8"	13.2"	17.5"	10.8"	0.0	-7.8"
TRAJ: 200 m. zero	-.8"	15.2"	21.4"	16.7"	7.1"	0.0
VELOCITY (fps)	1000	951	909	872	850	839
ENERGY (ft.-lbs.)	533	481	440	405	385	375
TRAJ: 50 m. zero	-.8"	0.0	-10.7"	-33.9"	-56.6"	-70.8"
TRAJ: 100 m. zero	-.8"	5.3"	0.0	-17.9"	-37.0"	-49.4"
TRAJ: 150 m. zero	-.8"	11.3"	11.9"	0.0	-15.2"	-25.6"
TRAJ: 200 yds. zero	-.8"	15.5"	20.2"	12.5"	0.0	-8.9"
TRAJ: 200 m. zero	-.8"	17.7"	24.7"	19.2"	8.2"	0.0

44 CALIBER (.430" Dia.) 240 GRAIN JACKETED TRUNCATED CONE SILHOUETTE
SECTIONAL DENSITY: .185 BALLISTIC COEFFICIENT: .174

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1800	1586	1396	1237	1153	1115
ENERGY (ft.-lbs.)	1726	1340	1039	815	708	663
TRAJ: 50 m. zero	-.8"	0.0	-3.4"	-12.1"	-21.4"	-27.6"
TRAJ: 100 m. zero	-.8"	1.7"	0.0	-7.0"	-15.3"	-20.9"
TRAJ: 150 m. zero	-.8"	4.0"	4.7"	0.0	-6.7"	-11.5"
TRAJ: 200 yds. zero	-.8"	5.9"	8.3"	5.5"	0.0	-4.2"
TRAJ: 200 m. zero	-.8"	6.9"	10.4"	8.6"	3.8"	0.0
VELOCITY (fps)	1700	1496	1320	1177	1104	1073
ENERGY (ft.-lbs.)	1540	1193	928	738	650	613
TRAJ: 50 m. zero	-.8"	0.0	-3.9"	-13.7"	-24.2"	-31.1"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.9"	-17.1"	-23.3"
TRAJ: 150 m. zero	-.8"	4.6"	5.3"	0.0	-7.5"	-12.8"
TRAJ: 200 yds. zero	-.8"	6.6"	9.4"	6.1"	0.0	-4.6"
TRAJ: 200 m. zero	-.8"	7.8"	11.7"	9.6"	4.2"	0.0

Hornady HANDBOOK

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1600	1408	1247	1123	1061	1034
ENERGY (ft.-lbs.)	1364	1057	829	671	600	570
TRAJ: 50 m. zero	-.8"	0.0	-4.5"	-15.6"	-27.3"	-35.0"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-8.9"	-19.2"	-26.0"
TRAJ: 150 m. zero	-.8"	5.2"	5.9"	0.0	-8.3"	-14.1"
TRAJ: 200 yds. zero	-.8"	7.5"	10.5"	6.8"	0.0	-5.1"
TRAJ: 200 m. zero	-.8"	8.7"	13.0"	10.6"	4.6"	0.0
VELOCITY (fps)	1500	1323	1179	1074	1023	1000
ENERGY (ft.-lbs.)	1199	932	741	615	557	532
TRAJ: 50 m. zero	-.8"	0.0	-5.2"	-17.8"	-30.8"	-39.3"
TRAJ: 100 m. zero	-.8"	2.6"	0.0	-10.0"	-21.4"	-29.0"
TRAJ: 150 m. zero	-.8"	5.9"	6.7"	0.0	-9.2"	-15.6"
TRAJ: 200 yds. zero	-.8"	8.4"	11.7"	7.5"	0.0	-5.6"
TRAJ: 200 m. zero	-.8"	9.8"	14.5"	11.7"	5.1"	0.0
VELOCITY (fps)	1400	1240	1118	1031	987	967
ENERGY (ft.-lbs.)	1044	820	666	566	519	498
TRAJ: 50 m. zero	-.8"	0.0	-6.0"	-20.2"	-34.7"	-44.1"
TRAJ: 100 m. zero	-.8"	3.0"	0.0	-11.3"	-23.8"	-32.2"
TRAJ: 150 m. zero	-.8"	6.7"	7.5"	0.0	-10.1"	-17.1"
TRAJ: 200 yds. zero	-.8"	9.5"	13.0"	8.3"	0.0	-6.1"
TRAJ: 200 m. zero	-.8"	11.0"	16.1"	12.9"	5.6"	0.0
VELOCITY (fps)	1300	1162	1062	991	953	935
ENERGY (ft.-lbs.)	900	719	601	523	484	466
TRAJ: 50 m. zero	-.8"	0.0	-6.9"	-22.9"	-39.1"	-49.4"
TRAJ: 100 m. zero	-.8"	3.4"	0.0	-12.6"	-26.5"	-35.6"
TRAJ: 150 m. zero	-.8"	7.6"	8.4"	0.0	-11.1"	-18.8"
TRAJ: 200 yds. zero	-.8"	10.7"	14.5"	9.1"	0.0	-6.6"
TRAJ: 200 m. zero	-.8"	12.3"	17.8"	14.1"	6.1"	0.0
VELOCITY (fps)	1200	1089	1010	951	918	902
ENERGY (ft.-lbs.)	767	632	544	482	449	434
TRAJ: 50 m. zero	-.8"	0.0	-7.9"	-26.0"	-44.0"	-55.4"
TRAJ: 100 m. zero	-.8"	4.0"	0.0	-14.1"	-29.4"	-39.5"
TRAJ: 150 m. zero	-.8"	8.7"	9.4"	0.0	-12.3"	-20.7"
TRAJ: 200 yds. zero	-.8"	12.0"	16.1"	10.1"	0.0	-7.3"
TRAJ: 200 m. zero	-.8"	13.8"	19.7"	15.5"	6.7"	0.0
VELOCITY (fps)	1100	1018	957	908	879	865
ENERGY (ft.-lbs.)	645	553	488	439	412	398
TRAJ: 50 m. zero	-.8"	0.0	-9.2"	-29.7"	-49.9"	-62.7"
TRAJ: 100 m. zero	-.8"	4.6"	0.0	-15.9"	-33.1"	-44.3"
TRAJ: 150 m. zero	-.8"	9.9"	10.6"	0.0	-13.7"	-23.1"
TRAJ: 200 yds. zero	-.8"	13.6"	18.1"	11.2"	0.0	-8.1"
TRAJ: 200 m. zero	-.8"	15.7"	22.1"	17.3"	7.4"	0.0
VELOCITY (fps)	1000	943	895	854	829	817
ENERGY (ft.-lbs.)	533	474	427	389	366	356
TRAJ: 50 m. zero	-.8"	0.0	-10.9"	-34.7"	-58.0"	-72.7"
TRAJ: 100 m. zero	-.8"	5.4"	0.0	-18.4"	-38.1"	-50.9"
TRAJ: 150 m. zero	-.8"	11.6"	12.3"	0.0	-15.7"	-26.4"
TRAJ: 200 yds. zero	-.8"	15.9"	20.8"	12.9"	0.0	-9.3"
TRAJ: 200 m. zero	-.8"	18.2"	25.5"	19.8"	8.5"	0.0

44 CALIBER (.430" Dia.) 300 GRAIN XTP HOLLOW POINT SECTIONAL DENSITY: .232 BALLISTIC COEFFICIENT: .180

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1600	1414	1257	1133	1072	1045
ENERGY (ft.-lbs.)	1705	1332	1052	855	765	727
TRAJ: 50 m. zero	-.8"	0.0	-4.4"	-15.4"	-27.0"	-34.5"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-8.8"	-18.9"	-25.7"
TRAJ: 150 m. zero	-.8"	5.1"	5.9"	0.0	-8.2"	-13.9"
TRAJ: 200 yds. zero	-.8"	7.4"	10.3"	6.7"	0.0	-5.0"
TRAJ: 200 m. zero	-.8"	8.6"	12.8"	10.4"	4.6"	0.0
VELOCITY (fps)	1500	1328	1188	1083	1031	1008
ENERGY (ft.-lbs.)	1499	1175	939	781	709	677
TRAJ: 50 m. zero	-.8"	0.0	-5.1"	-17.6"	-30.5"	-38.8"
TRAJ: 100 m. zero	-.8"	2.6"	0.0	-9.9"	-21.1"	-28.6"
TRAJ: 150 m. zero	-.8"	5.9"	6.6"	0.0	-9.0"	-15.4"
TRAJ: 200 yds. zero	-.8"	8.3"	11.6"	7.4"	0.0	-5.5"
TRAJ: 200 m. zero	-.8"	9.7"	14.3"	11.5"	5.0"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1400	1245	1125	1038	995	975
ENERGY (ft.-lbs.)	1305	1032	842	718	659	633
TRAJ: 50 m. zero	-.8"	0.0	-5.9"	-20.0"	-34.4"	-43.6"
TRAJ: 100 m. zero	-.8"	3.0"	0.0	-11.1"	-23.6"	-31.8"
TRAJ: 150 m. zero	-.8"	6.7"	7.4"	0.0	-10.0"	-16.9"
TRAJ: 200 yds. zero	-.8"	9.4"	12.9"	8.2"	0.0	-6.0"
TRAJ: 200 m. zero	-.8"	10.9"	15.9"	12.7"	5.5"	0.0
VELOCITY (fps)	1300	1166	1068	997	959	942
ENERGY (ft.-lbs.)	1126	905	759	662	613	591
TRAJ: 50 m. zero	-.8"	0.0	-6.8"	-22.7"	-38.7"	-48.9"
TRAJ: 100 m. zero	-.8"	3.4"	0.0	-12.5"	-26.2"	-35.2"
TRAJ: 150 m. zero	-.8"	7.6"	8.3"	0.0	-11.0"	-18.6"
TRAJ: 200 yds. zero	-.8"	10.6"	14.3"	9.0"	0.0	-6.6"
TRAJ: 200 m. zero	-.8"	12.2"	17.6"	14.0"	6.0"	0.0
VELOCITY (fps)	1200	1092	1015	956	924	908
ENERGY (ft.-lbs.)	959	794	686	609	568	549
TRAJ: 50 m. zero	-.8"	0.0	-7.9"	-25.8"	-43.6"	-54.9"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-14.0"	-29.2"	-39.2"
TRAJ: 150 m. zero	-.8"	8.6"	9.3"	0.0	-12.2"	-20.5"
TRAJ: 200 yds. zero	-.8"	11.9"	16.0"	10.0"	0.0	-7.2"
TRAJ: 200 m. zero	-.8"	13.7"	19.6"	15.4"	6.6"	0.0
VELOCITY (fps)	1100	1021	961	912	884	870
ENERGY (ft.-lbs.)	806	694	615	554	520	504
TRAJ: 50 m. zero	-.8"	0.0	-9.2"	-29.5"	-49.6"	-62.2"
TRAJ: 100 m. zero	-.8"	4.6"	0.0	-15.8"	-32.8"	-43.9"
TRAJ: 150 m. zero	-.8"	9.8"	10.5"	0.0	-13.6"	-22.9"
TRAJ: 200 yds. zero	-.8"	13.6"	18.0"	11.2"	0.0	-8.0"
TRAJ: 200 m. zero	-.8"	15.6"	22.0"	17.2"	7.3"	0.0
VELOCITY (fps)	1000	944	898	858	834	822
ENERGY (ft.-lbs.)	666	594	537	490	463	450
TRAJ: 50 m. zero	-.8"	0.0	-10.8"	-34.5"	-57.7"	-72.3"
TRAJ: 100 m. zero	-.8"	5.4"	0.0	-18.3"	-37.9"	-50.6"
TRAJ: 150 m. zero	-.8"	11.5"	12.2"	0.0	-15.6"	-26.2"
TRAJ: 200 yds. zero	-.8"	15.8"	20.7"	12.8"	0.0	-9.2"
TRAJ: 200 m. zero	-.8"	18.1"	25.3"	19.7"	8.4"	0.0

45 CALIBER (.451" Dia.) 230 GRAIN FULL METAL JACKET ROUND NOSE
SECTIONAL DENSITY: .162 BALLISTIC COEFFICIENT: .184

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1700	1507	1337	1198	1124	1092
ENERGY (ft.-lbs.)	1476	1159	913	732	646	609
TRAJ: 50 m. zero	-.8"	0.0	-3.8"	-13.4"	-23.6"	-30.3"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.7"	-16.7"	-22.7"
TRAJ: 150 m. zero	-.8"	4.5"	5.2"	0.0	-7.3"	-12.4"
TRAJ: 200 yds. zero	-.8"	6.5"	9.1"	5.9"	0.0	-4.5"
TRAJ: 200 m. zero	-.8"	7.6"	11.4"	9.3"	4.1"	0.0
VELOCITY (fps)	1600	1418	1263	1140	1078	1051
ENERGY (ft.-lbs.)	1307	1027	814	664	594	564
TRAJ: 50 m. zero	-.8"	0.0	-4.4"	-15.3"	-26.7"	-34.2"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-8.7"	-18.7"	-25.4"
TRAJ: 150 m. zero	-.8"	5.1"	5.8"	0.0	-8.1"	-13.8"
TRAJ: 200 yds. zero	-.8"	7.3"	10.2"	6.6"	0.0	-4.9"
TRAJ: 200 m. zero	-.8"	8.5"	12.7"	10.3"	4.5"	0.0
VELOCITY (fps)	1500	1332	1193	1089	1037	1014
ENERGY (ft.-lbs.)	1149	905	727	605	549	525
TRAJ: 50 m. zero	-.8"	0.0	-5.1"	-17.4"	-30.2"	-38.5"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-9.8"	-21.0"	-28.4"
TRAJ: 150 m. zero	-.8"	5.8"	6.6"	0.0	-9.0"	-15.2"
TRAJ: 200 yds. zero	-.8"	8.3"	11.5"	7.4"	0.0	-5.4"
TRAJ: 200 m. zero	-.8"	9.6"	14.2"	11.4"	5.0"	0.0
VELOCITY (fps)	1400	1248	1129	1043	1000	980
ENERGY (ft.-lbs.)	1001	795	651	556	510	490
TRAJ: 50 m. zero	-.8"	0.0	-5.9"	-19.9"	-34.1"	-43.3"
TRAJ: 100 m. zero	-.8"	2.9"	0.0	-11.1"	-23.4"	-31.5"
TRAJ: 150 m. zero	-.8"	6.6"	7.4"	0.0	-9.9"	-16.8"
TRAJ: 200 yds. zero	-.8"	9.3"	12.8"	8.1"	0.0	-6.0"
TRAJ: 200 m. zero	-.8"	10.8"	15.8"	12.6"	5.4"	0.0

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RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1300	1168	1071	1001	964	946
ENERGY (ft.-lbs.)	863	697	586	512	474	457
TRAJ: 50 m. zero	-.8"	0.0	-6.8"	-22.6"	-38.5"	-48.6"
TRAJ: 100 m. zero	-.8"	3.4"	0.0	-12.4"	-26.1"	-35.0"
TRAJ: 150 m. zero	-.8"	7.5"	8.3"	0.0	-10.9"	-18.5"
TRAJ: 200 yds. zero	-.8"	10.5"	14.3"	9.0"	0.0	-6.5"
TRAJ: 200 m. zero	-.8"	12.2"	17.5"	13.9"	6.0"	0.0
VELOCITY (fps)	1200	1094	1018	960	928	912
ENERGY (ft.-lbs.)	735	611	529	470	439	425
TRAJ: 50 m. zero	-.8"	0.0	-7.9"	-25.7"	-43.4"	-54.7"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-13.9"	-29.0"	-38.9"
TRAJ: 150 m. zero	-.8"	8.6"	9.3"	0.0	-12.1"	-20.4"
TRAJ: 200 yds. zero	-.8"	11.9"	15.9"	9.9"	0.0	-7.2"
TRAJ: 200 m. zero	-.8"	13.7"	19.5"	15.3"	6.6"	0.0
VELOCITY (fps)	1100	1022	963	915	887	874
ENERGY (ft.-lbs.)	618	533	474	428	402	390
TRAJ: 50 m. zero	-.8"	0.0	-9.1"	-29.4"	-49.4"	-62.0"
TRAJ: 100 m. zero	-.8"	4.6"	0.0	-15.7"	-32.7"	-43.7"
TRAJ: 150 m. zero	-.8"	9.8"	10.5"	0.0	-13.5"	-22.8"
TRAJ: 200 yds. zero	-.8"	13.5"	17.9"	11.1"	0.0	-8.0"
TRAJ: 200 m. zero	-.8"	15.5"	21.9"	17.1"	7.3"	0.0
VELOCITY (fps)	1000	946	900	860	837	825
ENERGY (ft.-lbs.)	511	457	414	378	357	347
TRAJ: 50 m. zero	-.8"	0.0	-10.8"	-34.4"	-57.5"	-72.0"
TRAJ: 100 m. zero	-.8"	5.4"	0.0	-18.2"	-37.7"	-50.4"
TRAJ: 150 m. zero	-.8"	11.5"	12.1"	0.0	-15.5"	-26.1"
TRAJ: 200 yds. zero	-.8"	15.7"	20.6"	12.8"	0.0	-9.1"
TRAJ: 200 m. zero	-.8"	18.0"	25.2"	19.6"	8.4"	0.0

45 CALIBER (.451" Dia.) 230 GRAIN FULL METAL JACKET FLAT POINT
SECTIONAL DENSITY: .162 BALLISTIC COEFFICIENT: .168

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1700	1489	1308	1164	1092	1060
ENERGY (ft.-lbs.)	1476	1133	874	692	609	574
TRAJ: 50 m. zero	-.8"	0.0	-3.9"	-13.9"	-24.6"	-31.6"
TRAJ: 100 m. zero	-.8"	2.0"	0.0	-8.0"	-17.4"	-23.7"
TRAJ: 150 m. zero	-.8"	4.6"	5.4"	0.0	-7.6"	-13.0"
TRAJ: 200 yds. zero	-.8"	6.7"	9.5"	6.2"	0.0	-4.7"
TRAJ: 200 m. zero	-.8"	7.9"	11.9"	9.8"	4.3"	0.0
VELOCITY (fps)	1600	1402	1237	1112	1051	1024
ENERGY (ft.-lbs.)	1307	1004	781	631	564	535
TRAJ: 50 m. zero	-.8"	0.0	-4.5"	-15.8"	-27.7"	-35.5"
TRAJ: 100 m. zero	-.8"	2.3"	0.0	-9.1"	-19.5"	-26.5"
TRAJ: 150 m. zero	-.8"	5.3"	6.0"	0.0	-8.4"	-14.4"
TRAJ: 200 yds. zero	-.8"	7.6"	10.6"	6.9"	0.0	-5.2"
TRAJ: 200 m. zero	-.8"	8.9"	13.2"	10.8"	4.7"	0.0
VELOCITY (fps)	1500	1317	1171	1065	1014	991
ENERGY (ft.-lbs.)	1149	886	700	579	525	501
TRAJ: 50 m. zero	-.8"	0.0	-5.2"	-18.0"	-31.2"	-39.8"
TRAJ: 100 m. zero	-.8"	2.6"	0.0	-10.2"	-21.7"	-29.4"
TRAJ: 150 m. zero	-.8"	6.0"	6.8"	0.0	-9.3"	-15.8"
TRAJ: 200 yds. zero	-.8"	8.5"	11.9"	7.6"	0.0	-5.6"
TRAJ: 200 m. zero	-.8"	10.0"	14.7"	11.9"	5.2"	0.0
VELOCITY (fps)	1400	1235	1110	1023	979	959
ENERGY (ft.-lbs.)	1001	779	630	535	490	470
TRAJ: 50 m. zero	-.8"	0.0	-6.0"	-20.4"	-35.1"	-44.6"
TRAJ: 100 m. zero	-.8"	3.0"	0.0	-11.4"	-24.1"	-32.5"
TRAJ: 150 m. zero	-.8"	6.8"	7.6"	0.0	-10.2"	-17.3"
TRAJ: 200 yds. zero	-.8"	9.6"	13.2"	8.4"	0.0	-6.2"
TRAJ: 200 m. zero	-.8"	11.1"	16.3"	13.0"	5.6"	0.0
VELOCITY (fps)	1300	1158	1056	984	946	928
ENERGY (ft.-lbs.)	863	684	570	495	457	440
TRAJ: 50 m. zero	-.8"	0.0	-6.9"	-23.1"	-39.4"	-49.9"
TRAJ: 100 m. zero	-.8"	3.5"	0.0	-12.7"	-26.7"	-36.0"
TRAJ: 150 m. zero	-.8"	7.7"	8.5"	0.0	-11.2"	-19.0"
TRAJ: 200 yds. zero	-.8"	10.8"	14.6"	9.2"	0.0	-6.7"
TRAJ: 200 m. zero	-.8"	12.5"	18.0"	14.3"	6.1"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1200	1086	1006	945	912	896
ENERGY (ft.-lbs.)	735	602	516	456	425	410
TRAJ: 50 m. zero	-.8"	0.0	-8.0"	-26.2"	-44.3"	-55.8"
TRAJ: 100 m. zero	-.8"	4.0"	0.0	-14.2"	-29.7"	-39.9"
TRAJ: 150 m. zero	-.8"	8.7"	9.5"	0.0	-12.4"	-20.9"
TRAJ: 200 yds. zero	-.8"	12.1"	16.2"	10.2"	0.0	-7.4"
TRAJ: 200 m. zero	-.8"	14.0"	19.9"	15.7"	6.7"	0.0
VELOCITY (fps)	1100	1016	953	903	873	859
ENERGY (ft.-lbs.)	618	527	464	416	390	377
TRAJ: 50 m. zero	-.8"	0.0	-9.2"	-29.9"	-50.2"	-63.1"
TRAJ: 100 m. zero	-.8"	4.6"	0.0	-16.0"	-33.3"	-44.6"
TRAJ: 150 m. zero	-.8"	10.0"	10.7"	0.0	-13.8"	-23.3"
TRAJ: 200 yds. zero	-.8"	13.7"	18.2"	11.3"	0.0	-8.2"
TRAJ: 200 m. zero	-.8"	15.8"	22.3"	17.5"	7.5"	0.0
VELOCITY (fps)	1000	941	892	850	824	812
ENERGY (ft.-lbs.)	511	452	406	369	347	337
TRAJ: 50 m. zero	-.8"	0.0	-10.9"	-34.9"	-58.4"	-73.2"
TRAJ: 100 m. zero	-.8"	5.5"	0.0	-18.5"	-38.4"	-51.3"
TRAJ: 150 m. zero	-.8"	11.6"	12.3"	0.0	-15.8"	-26.7"
TRAJ: 200 yds. zero	-.8"	16.0"	21.0"	13.0"	0.0	-9.3"
TRAJ: 200 m. zero	-.8"	18.3"	25.7"	20.0"	8.5"	0.0

45 CALIBER (.452" Dia.) 250 GRAIN LONG COLT XTP HOLLOW POINT
SECTIONAL DENSITY: .175 BALLISTIC COEFFICIENT: .197

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	2000	1794	1605	1433	1333	1285
ENERGY (ft.-lbs.)	2220	1787	1429	1140	986	917
TRAJ: 50 m. zero	-.8"	0.0	-2.4"	-8.9"	-15.9"	-20.5"
TRAJ: 100 m. zero	-.8"	1.2"	0.0	-5.3"	-11.4"	-15.6"
TRAJ: 150 m. zero	-.8"	3.0"	3.5"	0.0	-5.0"	-8.6"
TRAJ: 200 yds. zero	-.8"	4.3"	6.3"	4.1"	0.0	-3.1"
TRAJ: 200 m. zero	-.8"	5.1"	7.8"	6.4"	2.9"	0.0
VELOCITY (fps)	1900	1702	1520	1359	1267	1224
ENERGY (ft.-lbs.)	2004	1607	1283	1026	891	831
TRAJ: 50 m. zero	-.8"	0.0	-2.8"	-10.1"	-17.9"	-23.1"
TRAJ: 100 m. zero	-.8"	1.4"	0.0	-5.9"	-12.8"	-17.5"
TRAJ: 150 m. zero	-.8"	3.4"	3.9"	0.0	-5.6"	-9.6"
TRAJ: 200 yds. zero	-.8"	4.9"	7.0"	4.6"	0.0	-3.5"
TRAJ: 200 m. zero	-.8"	5.8"	8.7"	7.2"	3.2"	0.0
VELOCITY (fps)	1800	1610	1438	1289	1206	1167
ENERGY (ft.-lbs.)	1798	1438	1148	922	807	756
TRAJ: 50 m. zero	-.8"	0.0	-3.2"	-11.5"	-20.3"	-26.0"
TRAJ: 100 m. zero	-.8"	1.6"	0.0	-6.7"	-14.4"	-19.6"
TRAJ: 150 m. zero	-.8"	3.8"	4.4"	0.0	-6.3"	-10.7"
TRAJ: 200 yds. zero	-.8"	5.5"	7.9"	5.1"	0.0	-3.9"
TRAJ: 200 m. zero	-.8"	6.5"	9.8"	8.0"	3.5"	0.0
VELOCITY (fps)	1700	1519	1358	1223	1149	1117
ENERGY (ft.-lbs.)	1604	1280	1024	830	733	692
TRAJ: 50 m. zero	-.8"	0.0	-3.7"	-13.1"	-23.0"	-29.4"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.5"	-16.2"	-22.0"
TRAJ: 150 m. zero	-.8"	4.4"	5.0"	0.0	-7.0"	-12.0"
TRAJ: 200 yds. zero	-.8"	6.3"	8.8"	5.7"	0.0	-4.3"
TRAJ: 200 m. zero	-.8"	7.4"	11.0"	9.0"	3.9"	0.0
VELOCITY (fps)	1600	1429	1282	1162	1099	1072
ENERGY (ft.-lbs.)	1421	1134	912	749	671	638
TRAJ: 50 m. zero	-.8"	0.0	-4.3"	-14.9"	-26.0"	-33.3"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-8.5"	-18.2"	-24.7"
TRAJ: 150 m. zero	-.8"	5.0"	5.7"	0.0	-7.8"	-13.4"
TRAJ: 200 yds. zero	-.8"	7.1"	9.9"	6.4"	0.0	-4.8"
TRAJ: 200 m. zero	-.8"	8.3"	12.3"	10.0"	4.4"	0.0
VELOCITY (fps)	1500	1342	1209	1107	1055	1032
ENERGY (ft.-lbs.)	1249	999	812	680	618	591
TRAJ: 50 m. zero	-.8"	0.0	-5.0"	-17.1"	-29.5"	-37.6"
TRAJ: 100 m. zero	-.8"	2.5"	0.0	-9.6"	-20.4"	-27.6"
TRAJ: 150 m. zero	-.8"	5.7"	6.4"	0.0	-8.7"	-14.8"
TRAJ: 200 yds. zero	-.8"	8.1"	11.2"	7.2"	0.0	-5.3"
TRAJ: 200 m. zero	-.8"	9.4"	13.8"	11.1"	4.8"	0.0

Hornady HANDBOOK

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1400	1257	1143	1058	1015	995
ENERGY (ft.-lbs.)	1088	877	725	621	571	549
TRAJ: 50 m. zero	-.8"	0.0	-5.8"	-19.5"	-33.5"	-42.4"
TRAJ: 100 m. zero	-.8"	2.9"	0.0	-10.8"	-22.9"	-30.8"
TRAJ: 150 m. zero	-.8"	6.5"	7.2"	0.0	-9.7"	-16.4"
TRAJ: 200 yds. zero	-.8"	9.1"	12.5"	7.9"	0.0	-5.8"
TRAJ: 200 m. zero	-.8"	10.6"	15.4"	12.3"	5.3"	0.0
VELOCITY (fps)	1300	1176	1082	1013	977	960
ENERGY (ft.-lbs.)	938	768	650	570	530	511
TRAJ: 50 m. zero	-.8"	0.0	-6.7"	-22.2"	-37.8"	-47.8"
TRAJ: 100 m. zero	-.8"	3.4"	0.0	-12.2"	-25.6"	-34.4"
TRAJ: 150 m. zero	-.8"	7.4"	8.1"	0.0	-10.7"	-18.1"
TRAJ: 200 yds. zero	-.8"	10.3"	14.0"	8.8"	0.0	-6.4"
TRAJ: 200 m. zero	-.8"	11.9"	17.2"	13.6"	5.8"	0.0
VELOCITY (fps)	1200	1100	1027	970	939	924
ENERGY (ft.-lbs.)	799	671	585	522	489	474
TRAJ: 50 m. zero	-.8"	0.0	-7.8"	-25.3"	-42.8"	-53.8"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-13.7"	-28.6"	-38.3"
TRAJ: 150 m. zero	-.8"	8.4"	9.1"	0.0	-11.9"	-20.1"
TRAJ: 200 yds. zero	-.8"	11.7"	15.6"	9.8"	0.0	-7.1"
TRAJ: 200 m. zero	-.8"	13.5"	19.2"	15.0"	6.5"	0.0
VELOCITY (fps)	1100	1027	970	924	897	884
ENERGY (ft.-lbs.)	672	585	522	474	447	434
TRAJ: 50 m. zero	-.8"	0.0	-9.0"	-29.1"	-48.8"	-61.2"
TRAJ: 100 m. zero	-.8"	4.5"	0.0	-15.5"	-32.2"	-43.1"
TRAJ: 150 m. zero	-.8"	9.7"	10.3"	0.0	-13.3"	-22.4"
TRAJ: 200 yds. zero	-.8"	13.3"	17.6"	10.9"	0.0	-7.9"
TRAJ: 200 m. zero	-.8"	15.3"	21.6"	16.8"	7.2"	0.0
VELOCITY (fps)	1000	949	906	868	845	834
ENERGY (ft.-lbs.)	555	500	455	418	396	386
TRAJ: 50 m. zero	-.8"	0.0	-10.7"	-34.1"	-56.9"	-71.2"
TRAJ: 100 m. zero	-.8"	5.4"	0.0	-18.0"	-37.3"	-49.8"
TRAJ: 150 m. zero	-.8"	11.4"	12.0"	0.0	-15.3"	-25.8"
TRAJ: 200 yds. zero	-.8"	15.6"	20.4"	12.6"	0.0	-9.0"
TRAJ: 200 m. zero	-.8"	17.8"	24.9"	19.3"	8.2"	0.0
VELOCITY (fps)	900	863	829	798	779	769
ENERGY (ft.-lbs.)	450	413	382	354	337	328
TRAJ: 50 m. zero	-.8"	0.0	-13.1"	-41.4"	-68.8"	-85.9"
TRAJ: 100 m. zero	-.8"	6.6"	0.0	-21.7"	-44.7"	-59.6"
TRAJ: 150 m. zero	-.8"	13.8"	14.5"	0.0	-18.3"	-30.7"
TRAJ: 200 yds. zero	-.8"	18.8"	24.5"	15.0"	0.0	-10.7"
TRAJ: 200 m. zero	-.8"	21.5"	29.8"	23.0"	9.8"	0.0

45 CALIBER (.452" Dia.) 300 GRAIN XTP HOLLOW POINT SECTIONAL DENSITY: .210 BALLISTIC COEFFICIENT: .180

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1700	1503	1330	1189	1116	1084
ENERGY (ft.-lbs.)	1925	1504	1179	942	830	783
TRAJ: 50 m. zero	-.8"	0.0	-3.8"	-13.5"	-23.8"	-30.6"
TRAJ: 100 m. zero	-.8"	1.9"	0.0	-7.8"	-16.8"	-23.0"
TRAJ: 150 m. zero	-.8"	4.5"	5.2"	0.0	-7.3"	-12.6"
TRAJ: 200 yds. zero	-.8"	6.5"	9.2"	6.0"	0.0	-4.5"
TRAJ: 200 m. zero	-.8"	7.6"	11.5"	9.4"	4.1"	0.0
VELOCITY (fps)	1600	1414	1257	1133	1072	1045
ENERGY (ft.-lbs.)	1705	1332	1052	855	765	727
TRAJ: 50 m. zero	-.8"	0.0	-4.4"	-15.4"	-27.0"	-34.5"
TRAJ: 100 m. zero	-.8"	2.2"	0.0	-8.8"	-18.9"	-25.7"
TRAJ: 150 m. zero	-.8"	5.1"	5.9"	0.0	-8.2"	-13.9"
TRAJ: 200 yds. zero	-.8"	7.4"	10.3"	6.7"	0.0	-5.0"
TRAJ: 200 m. zero	-.8"	8.6"	12.8"	10.4"	4.6"	0.0
VELOCITY (fps)	1500	1328	1188	1083	1031	1008
ENERGY (ft.-lbs.)	1499	1175	939	781	709	677
TRAJ: 50 m. zero	-.8"	0.0	-5.1"	-17.6"	-30.5"	-38.8"
TRAJ: 100 m. zero	-.8"	2.6"	0.0	-9.9"	-21.1"	-28.6"
TRAJ: 150 m. zero	-.8"	5.9"	6.6"	0.0	-9.0"	-15.4"
TRAJ: 200 yds. zero	-.8"	8.3"	11.6"	7.4"	0.0	-5.5"
TRAJ: 200 m. zero	-.8"	9.7"	14.3"	11.5"	5.0"	0.0

RANGE	MUZZLE	50 m.	100 m.	150 m.	200 yds.	200 m.
VELOCITY (fps)	1400	1245	1125	1038	995	975
ENERGY (ft.-lbs.)	1305	1032	842	718	659	633
TRAJ: 50 m. zero	-.8"	0.0	-5.9"	-20.0"	-34.4"	-43.6"
TRAJ: 100 m. zero	-.8"	3.0"	0.0	-11.1"	-23.6"	-31.8"
TRAJ: 150 m. zero	-.8"	6.7"	7.4"	0.0	-10.0"	-16.9"
TRAJ: 200 yds. zero	-.8"	9.4"	12.9"	8.2"	0.0	-6.0"
TRAJ: 200 m. zero	-.8"	10.9"	15.9"	12.7"	5.5"	0.0
VELOCITY (fps)	1300	1166	1068	997	959	942
ENERGY (ft.-lbs.)	1126	905	759	662	613	591
TRAJ: 50 m. zero	-.8"	0.0	-6.8"	-22.7"	-38.7"	-48.9"
TRAJ: 100 m. zero	-.8"	3.4"	0.0	-12.5"	-26.2"	-35.2"
TRAJ: 150 m. zero	-.8"	7.6"	8.3"	0.0	-11.0"	-18.6"
TRAJ: 200 yds. zero	-.8"	10.6"	14.3"	9.0"	0.0	-6.6"
TRAJ: 200 m. zero	-.8"	12.2"	17.6"	14.0"	6.0"	0.0
VELOCITY (fps)	1200	1092	1015	956	924	908
ENERGY (ft.-lbs.)	959	794	686	609	568	549
TRAJ: 50 m. zero	-.8"	0.0	-7.9"	-25.8"	-43.6"	-54.9"
TRAJ: 100 m. zero	-.8"	3.9"	0.0	-14.0"	-29.2"	-39.2"
TRAJ: 150 m. zero	-.8"	8.6"	9.3"	0.0	-12.2"	-20.5"
TRAJ: 200 yds. zero	-.8"	11.9"	16.0"	10.0"	0.0	-7.2"
TRAJ: 200 m. zero	-.8"	13.7"	19.6"	15.4"	6.6"	0.0
VELOCITY (fps)	1100	1021	961	912	884	870
ENERGY (ft.-lbs.)	806	694	615	554	520	504
TRAJ: 50 m. zero	-.8"	0.0	-9.2"	-29.5"	-49.6"	-62.2"
TRAJ: 100 m. zero	-.8"	4.6"	0.0	-15.8"	-32.8"	-43.9"
TRAJ: 150 m. zero	-.8"	9.8"	10.5"	0.0	-13.6"	-22.9"
TRAJ: 200 yds. zero	-.8"	13.6"	18.0"	11.2"	0.0	-8.0"
TRAJ: 200 m. zero	-.8"	15.6"	22.0"	17.2"	7.3"	0.0
VELOCITY (fps)	1000	944	898	858	834	822
ENERGY (ft.-lbs.)	666	594	537	490	463	450
TRAJ: 50 m. zero	-.8"	0.0	-10.8"	-34.5"	-57.7"	-72.3"
TRAJ: 100 m. zero	-.8"	5.4"	0.0	-18.3"	-37.9"	-50.6"
TRAJ: 150 m. zero	-.8"	11.5"	12.2"	0.0	-15.6"	-26.2"
TRAJ: 200 yds. zero	-.8"	15.8"	20.7"	12.8"	0.0	-9.2"
TRAJ: 200 m. zero	-.8"	18.1"	25.3"	19.7"	8.4"	0.0
VELOCITY (fps)	900	859	823	790	769	759
ENERGY (ft.-lbs.)	539	492	451	415	394	383
TRAJ: 50 m. zero	-.8"	0.0	-13.3"	-41.8"	-69.6"	-87.1"
TRAJ: 100 m. zero	-.8"	6.6"	0.0	-21.9"	-45.4"	-60.5"
TRAJ: 150 m. zero	-.8"	13.9"	14.6"	0.0	-18.6"	-31.3"
TRAJ: 200 yds. zero	-.8"	19.0"	24.8"	15.3"	0.0	-10.9"
TRAJ: 200 m. zero	-.8"	21.8"	30.3"	23.5"	10.0"	0.0

WIND DRIFT TABLES
INTRODUCTION

Anyone who has fired at ranges greater than 100 yards when the wind was blowing, has been disappointed because his shot did not strike exactly where intended. Obviously, the wind moved the bullet away from its intended path. After a great deal of shooting in windy conditions, some shooters can make an intuitive guess as to the amount of correction necessary to compensate for wind drift — often with very good results. The average shooter, however, does not have enough experience, and has to “walk his shots on target.” For this reason, the new Hornady Wind Drift Tables will allow one to make very close estimates of wind drift without numerous experimental shots. The tables are based on the ballistic coefficient, muzzle velocity, range, and cross-range wind velocity.

Wind drift is determined by the product of “lag time” and cross range wind velocity. “Lag time” is the time difference between the actual time of flight and the time of flight that results if no decelerating forces are placed on the bullet, keeping the velocity constant.

Cross-range wind velocity refers to the speed of the wind blowing perpendicular to the direction of fire (see example 1). For most calculations the uprange or downrange components of wind velocity are of little consequence and need not be considered.

To simplify the use of the wind drift table we have calculated the lag time for various ballistic coefficients at most practical muzzle velocities, using a cross-range wind velocity of 10 m.p.h., for six listed ranges.

Since the tables do not show ballistic coefficients for each particular bullet, the shooter can interpolate between tables to get more accurate results, though, as the following example shows, the improvement in accuracy will probably be insignificant.

Also, it is unlikely that the cross-range wind velocity is always 10 m.p.h., but drifts for different wind velocities will be proportional to the drifts shown in the table. (See example 1).

EXAMPLE 1. Find the wind drift at 200 yards if a 55 grain SX bullet is traveling at 2900 fps with a wind velocity of 20 m.p.h. at a 45° angle to the line of fire. The B.C. of the 55 grain SX is .235. To find the direct cross wind velocity:

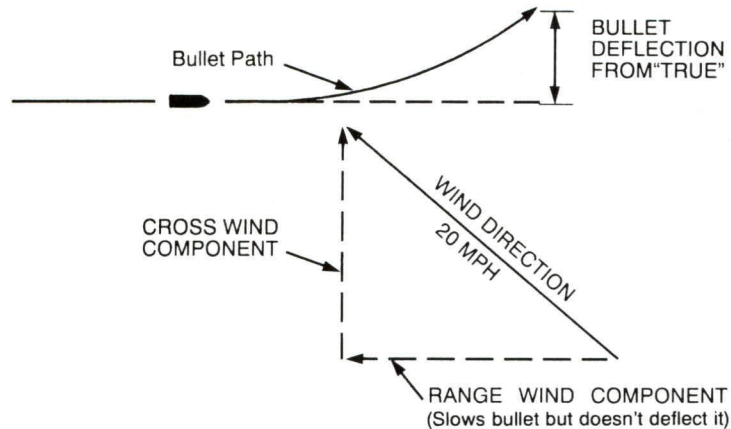
$$\begin{aligned}\text{cross wind} &= 20 \text{ m.p.h.} \times \sin 45^\circ \\ &= 20 \times .707 = 14 \text{ m.p.h.}\end{aligned}$$

The ratio of the new cross wind velocity to that given in the tables is $\frac{14 \text{ m.p.h.}}{10 \text{ m.p.h.}}$ or a multiplier of 1.4.

If we want the exact wind drift for a .235 B.C. we must interpolate the data given in the tables. The tables give wind drifts for B.C.'s of .220 and .240.

200 yard wind drift for B.C. of .220 = 6.3"

200 yard wind drift for B.C. of .240 = 5.7"



By constructing a ratio of the difference of the B.C.'s and using that ratio as a multiplier we can interpolate a wind drift for our new B.C. (.235) as follows:

$$\text{Multiplier ratio} = \frac{.235 - .220}{.240 - .220} = .75$$

$$\begin{aligned} 6.3 - .75 (6.3 - 5.7) &= \text{wind drift for 10 m.p.h.} \\ 6.3 - .45 &= \\ 5.85 &= \\ 5.8" &= \end{aligned}$$

applying the factor

for 14 m.p.h. wind we get $1.4 \times 5.8" = 8.1"$ for 14 m.p.h.

closest B.C. (.240) we get $5.7" \times 1.4 = 8.0"$ for 14 m.p.h.

The difference of .1" is very small and is nearly impossible to discern with even a very good varmint rifle, and is not as great an error as misjudging the speed of the wind. In most situations, interpolation of ballistic coefficient is not necessary and the shooter need only choose the closest B.C. for acceptable results. Also, since not all winds are directly crosswind, nor 10 m.p.h., interpolation here is not necessary.

BALLISTIC COEFFICIENT: .100

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1800	1470	1212	1046	946	873	813
WIND DRIFT (in.)	0.0	1.6"	6.8"	15.7"	27.6"	42.1"	58.8"
VELOCITY (fps)	1700	1388	1155	1013	923	855	797
WIND DRIFT (in.)	0.0	1.7"	7.1"	16.1"	27.9"	42.2"	58.6"
VELOCITY (fps)	1600	1309	1104	983	901	837	781
WIND DRIFT (in.)	0.0	1.8"	7.4"	16.3"	27.9"	41.9"	58.0"
VELOCITY (fps)	1500	1233	1059	954	879	818	765
WIND DRIFT (in.)	0.0	1.9"	7.5"	16.3"	27.5"	41.1"	56.9"
VELOCITY (fps)	1400	1163	1018	927	857	799	748
WIND DRIFT (in.)	0.0	1.9"	7.5"	15.9"	26.7"	39.7"	55.0"
VELOCITY (fps)	1300	1099	980	899	834	779	730
WIND DRIFT (in.)	0.0	1.9"	7.2"	15.0"	25.2"	37.7"	52.4"
VELOCITY (fps)	1200	1039	941	869	810	757	710
WIND DRIFT (in.)	0.0	1.8"	6.5"	13.8"	23.3"	35.0"	49.0"
VELOCITY (fps)	1100	980	899	835	780	731	686
WIND DRIFT (in.)	0.0	1.5"	5.7"	12.2"	20.9"	31.9"	45.2"

BALLISTIC COEFFICIENT: .110

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1800	1498	1252	1083	978	904	844
WIND DRIFT (in.)	0.0	1.4"	6.1"	14.2"	25.3"	38.7"	54.3"
VELOCITY (fps)	1700	1414	1190	1045	953	884	827
WIND DRIFT (in.)	0.0	1.5"	6.4"	14.7"	25.7"	39.0"	54.3"
VELOCITY (fps)	1600	1332	1134	1010	928	864	811
WIND DRIFT (in.)	0.0	1.6"	6.7"	15.0"	25.8"	38.8"	53.8"
VELOCITY (fps)	1500	1254	1084	979	905	845	793
WIND DRIFT (in.)	0.0	1.7"	6.9"	15.0"	25.5"	38.1"	52.8"
VELOCITY (fps)	1400	1181	1039	949	881	825	776
WIND DRIFT (in.)	0.0	1.7"	6.8"	14.6"	24.7"	36.9"	51.0"
VELOCITY (fps)	1300	1113	997	919	857	804	757
WIND DRIFT (in.)	0.0	1.7"	6.6"	13.9"	23.4"	34.9"	48.5"
VELOCITY (fps)	1200	1051	957	887	830	780	736
WIND DRIFT (in.)	0.0	1.6"	6.0"	12.7"	21.5"	32.3"	45.2"
VELOCITY (fps)	1100	989	912	851	799	753	710
WIND DRIFT (in.)	0.0	1.4"	5.2"	11.2"	19.2"	29.3"	41.4"

BALLISTIC COEFFICIENT: .120

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1800	1521	1289	1118	1008	933	873
WIND DRIFT (in.)	0.0	1.3"	5.5"	13.0"	23.2"	35.8"	50.5"
VELOCITY (fps)	1700	1435	1222	1075	980	911	855
WIND DRIFT (in.)	0.0	1.4"	5.8"	13.5"	23.7"	36.2"	50.6"
VELOCITY (fps)	1600	1352	1161	1036	953	890	837
WIND DRIFT (in.)	0.0	1.5"	6.1"	13.8"	23.9"	36.1"	50.2"
VELOCITY (fps)	1500	1272	1107	1001	927	868	818
WIND DRIFT (in.)	0.0	1.6"	6.3"	13.9"	23.7"	35.6"	49.3"
VELOCITY (fps)	1400	1196	1058	968	902	847	799
WIND DRIFT (in.)	0.0	1.6"	6.3"	13.6"	23.0"	34.4"	47.6"
VELOCITY (fps)	1300	1125	1013	936	876	825	779
WIND DRIFT (in.)	0.0	1.6"	6.1"	13.0"	21.8"	32.6"	45.2"
VELOCITY (fps)	1200	1060	970	903	848	800	757
WIND DRIFT (in.)	0.0	1.5"	5.6"	11.8"	20.0"	30.1"	42.0"
VELOCITY (fps)	1100	997	924	866	816	771	731
WIND DRIFT (in.)	0.0	1.3"	4.8"	10.4"	17.8"	27.1"	38.3"

BALLISTIC COEFFICIENT: .130

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2400	2086	1797	1538	1319	1149	1036
WIND DRIFT (in.)	0.0	.8"	3.4"	8.3"	15.9"	26.4"	39.7"
VELOCITY (fps)	2300	1993	1713	1466	1260	1109	1009
WIND DRIFT (in.)	0.0	.9"	3.7"	8.9"	16.8"	27.8"	41.3"
VELOCITY (fps)	2200	1901	1631	1395	1206	1073	985
WIND DRIFT (in.)	0.0	.9"	3.9"	9.4"	17.8"	29.1"	42.9"
VELOCITY (fps)	2100	1810	1550	1328	1156	1040	962
WIND DRIFT (in.)	0.0	1.0"	4.2"	10.0"	18.8"	30.4"	44.3"
VELOCITY (fps)	2000	1719	1471	1264	1112	1011	940
WIND DRIFT (in.)	0.0	1.0"	4.5"	10.7"	19.8"	31.6"	45.5"
VELOCITY (fps)	1900	1630	1394	1205	1072	984	919
WIND DRIFT (in.)	0.0	1.1"	4.8"	11.3"	20.7"	32.6"	46.5"
VELOCITY (fps)	1800	1521	1321	1151	1037	959	899
WIND DRIFT (in.)	0.0	1.2"	5.1"	11.9"	21.5"	33.3"	47.1"
VELOCITY (fps)	1700	1454	1251	1103	1005	935	879
WIND DRIFT (in.)	0.0	1.3"	5.4"	12.4"	22.0"	33.7"	47.3"

BALLISTIC COEFFICIENT: .130 (continued)

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1600	1369	1186	1060	976	912	860
WIND DRIFT (in.)	0.0	1.4"	5.6"	12.8"	22.3"	33.8"	47.1"
VELOCITY (fps)	1500	1287	1128	1022	948	890	841
WIND DRIFT (in.)	0.0	1.4"	5.8"	12.9"	22.2"	33.3"	46.3"
VELOCITY (fps)	1400	1209	1075	986	921	867	821
WIND DRIFT (in.)	0.0	1.5"	5.9"	12.7"	21.6"	32.3"	44.7"
VELOCITY (fps)	1300	1136	1027	952	893	844	800
WIND DRIFT (in.)	0.0	1.5"	5.7"	12.1"	20.5"	30.6"	42.4"
VELOCITY (fps)	1200	1069	982	917	864	818	777
WIND DRIFT (in.)	0.0	1.4"	5.2"	11.1"	18.7"	28.2"	39.3"
VELOCITY (fps)	1100	1003	934	878	830	788	749
WIND DRIFT (in.)	0.0	1.2"	4.5"	9.7"	16.6"	25.3"	35.6"

BALLISTIC COEFFICIENT: .140

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2400	2107	1837	1591	1377	1203	1079
WIND DRIFT (in.)	0.0	.7"	3.2"	7.6"	14.5"	24.0"	36.3"
VELOCITY (fps)	2300	2014	1752	1516	1314	1156	1047
WIND DRIFT (in.)	0.0	.8"	3.4"	8.1"	15.4"	25.4"	38.0"
VELOCITY (fps)	2200	1922	1667	1442	1254	1114	1018
WIND DRIFT (in.)	0.0	.8"	3.6"	8.6"	16.3"	26.7"	39.6"
VELOCITY (fps)	2100	1830	1585	1372	1199	1076	992
WIND DRIFT (in.)	0.0	.9"	3.8"	9.2"	17.3"	28.0"	41.0"
VELOCITY (fps)	2000	1738	1504	1304	1149	1042	968
WIND DRIFT (in.)	0.0	1.0"	4.1"	9.8"	18.2"	29.2"	42.3"
VELOCITY (fps)	1900	1648	1425	1241	1104	1012	945
WIND DRIFT (in.)	0.0	1.0"	4.4"	10.4"	19.1"	30.2"	43.4"
VELOCITY (fps)	1800	1558	1349	1182	1065	984	923
WIND DRIFT (in.)	0.0	1.1"	4.7"	11.0"	19.9"	31.1"	44.1"
VELOCITY (fps)	1700	1470	1277	1130	1029	958	902
WIND DRIFT (in.)	0.0	1.2"	5.0"	11.5"	20.5"	31.6"	44.5"
VELOCITY (fps)	1600	1384	1209	1083	997	933	881
WIND DRIFT (in.)	0.0	1.3"	5.2"	11.9"	20.8"	31.7"	44.3"
VELOCITY (fps)	1500	1301	1147	1041	967	909	861
WIND DRIFT (in.)	0.0	1.3"	5.4"	12.0"	20.8"	31.4"	43.6"
VELOCITY (fps)	1400	1221	1091	1003	938	885	840
WIND DRIFT (in.)	0.0	1.4"	5.5"	11.9"	20.3"	30.4"	42.2"
VELOCITY (fps)	1300	1146	1040	966	909	861	818
WIND DRIFT (in.)	0.0	1.4"	5.3"	11.4"	19.3"	28.8"	40.0"
VELOCITY (fps)	1200	1077	993	930	879	834	794
WIND DRIFT (in.)	0.0	1.3"	4.9"	10.4"	17.6"	26.5"	36.9"
VELOCITY (fps)	1100	1009	943	889	844	803	765
WIND DRIFT (in.)	0.0	1.1"	4.2"	9.1"	15.6"	23.7"	33.4"

BALLISTIC COEFFICIENT: .150

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2400	2126	1871	1638	1430	1256	1123
WIND DRIFT (in.)	0.0	.7"	2.9"	7.0"	13.3"	22.0"	33.3"
VELOCITY (fps)	2300	2033	1785	1560	1364	1203	1086
WIND DRIFT (in.)	0.0	.7"	3.1"	7.5"	14.1"	23.3"	35.0"
VELOCITY (fps)	2200	1940	1700	1485	1300	1155	1052
WIND DRIFT (in.)	0.0	.8"	3.3"	8.0"	15.0"	24.6"	36.6"
VELOCITY (fps)	2100	1847	1616	1411	1241	1112	1022
WIND DRIFT (in.)	0.0	.8"	3.6"	8.5"	15.9"	25.9"	38.1"
VELOCITY (fps)	2000	1755	1533	1341	1186	1073	995
WIND DRIFT (in.)	0.0	.9"	3.8"	9.0"	16.8"	27.1"	39.5"
VELOCITY (fps)	1900	1664	1453	1274	1136	1039	970
WIND DRIFT (in.)	0.0	1.0"	4.1"	9.6"	17.7"	28.2"	40.6"
VELOCITY (fps)	1800	1574	1375	1212	1092	1008	946
WIND DRIFT (in.)	0.0	1.0"	4.3"	10.2"	18.5"	29.0"	41.4"
VELOCITY (fps)	1700	1485	1300	1155	1052	980	923
WIND DRIFT (in.)	0.0	1.1"	4.6"	10.7"	19.1"	29.6"	41.9"
VELOCITY (fps)	1600	1398	1230	1104	1017	953	901
WIND DRIFT (in.)	0.0	1.2"	4.8"	11.1"	19.5"	29.9"	41.9"
VELOCITY (fps)	1500	1313	1165	1059	985	927	879
WIND DRIFT (in.)	0.0	1.2"	5.0"	11.3"	19.6"	29.6"	41.3"
VELOCITY (fps)	1400	1232	1105	1018	954	902	857
WIND DRIFT (in.)	0.0	1.3"	5.1"	11.2"	19.2"	28.8"	40.0"
VELOCITY (fps)	1300	1155	1052	980	923	876	834
WIND DRIFT (in.)	0.0	1.3"	5.0"	10.7"	18.2"	27.3"	37.9"
VELOCITY (fps)	1200	1083	1002	941	891	848	810
WIND DRIFT (in.)	0.0	1.2"	4.6"	9.8"	16.6"	25.0"	34.9"
VELOCITY (fps)	1100	1014	951	899	855	816	780
WIND DRIFT (in.)	0.0	1.1"	4.0"	8.5"	14.7"	22.3"	31.4"

BALLISTIC COEFFICIENT: .160

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2400	2143	1902	1680	1479	1306	1167
WIND DRIFT (in.)	0.0	.6"	2.7"	6.5"	12.3"	20.3"	30.7"
VELOCITY (fps)	2300	2049	1815	1600	1410	1249	1125
WIND DRIFT (in.)	0.0	.7"	2.9"	6.9"	13.0"	21.5"	32.3"
VELOCITY (fps)	2200	1955	1729	1523	1343	1196	1086
WIND DRIFT (in.)	0.0	.7"	3.1"	7.4"	13.9"	22.7"	33.9"
VELOCITY (fps)	2100	1862	1643	1447	1280	1147	1052
WIND DRIFT (in.)	0.0	.8"	3.3"	7.9"	14.7"	24.0"	35.5"
VELOCITY (fps)	2000	1770	1560	1375	1221	1104	1022
WIND DRIFT (in.)	0.0	.8"	3.5"	8.4"	15.6"	25.2"	36.9"
VELOCITY (fps)	1900	1678	1478	1305	1166	1066	994
WIND DRIFT (in.)	0.0	.9"	3.8"	8.9"	16.5"	26.3"	38.1"
VELOCITY (fps)	1800	1587	1398	1239	1118	1031	968
WIND DRIFT (in.)	0.0	1.0"	4.0"	9.5"	17.3"	27.2"	39.0"
VELOCITY (fps)	1700	1497	1321	1179	1075	1000	943
WIND DRIFT (in.)	0.0	1.0"	4.3"	9.9"	17.9"	27.9"	39.6"
VELOCITY (fps)	1600	1409	1249	1124	1036	971	920
WIND DRIFT (in.)	0.0	1.1"	4.5"	10.4"	18.4"	28.2"	39.7"
VELOCITY (fps)	1500	1324	1181	1076	1001	944	896
WIND DRIFT (in.)	0.0	1.2"	4.7"	10.6"	18.5"	28.1"	39.2"
VELOCITY (fps)	1400	1241	1119	1032	968	917	873
WIND DRIFT (in.)	0.0	1.2"	4.8"	10.6"	18.1"	27.3"	38.0"
VELOCITY (fps)	1300	1163	1063	992	936	890	849
WIND DRIFT (in.)	0.0	1.2"	4.7"	10.2"	17.3"	25.9"	36.0"
VELOCITY (fps)	1200	1089	1011	952	903	861	824
WIND DRIFT (in.)	0.0	1.1"	4.3"	9.3"	15.8"	23.7"	33.1"
VELOCITY (fps)	1100	1019	958	908	866	828	793
WIND DRIFT (in.)	0.0	1.0"	3.7"	8.1"	13.9"	21.1"	29.7"

BALLISTIC COEFFICIENT: .180

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	4100	3762	3449	3159	2887	2632	2390
WIND DRIFT (in.)	0.0	.3"	1.2"	2.7"	5.0"	8.2"	12.3"
VELOCITY (fps)	4000	3670	3364	3079	2812	2561	2323
WIND DRIFT (in.)	0.0	.3"	1.2"	2.8"	5.2"	8.4"	12.7"
VELOCITY (fps)	3900	3577	3278	2999	2737	2489	2255
WIND DRIFT (in.)	0.0	.3"	1.2"	2.9"	5.3"	8.7"	13.1"
VELOCITY (fps)	3800	3485	3192	2918	2661	2417	2187
WIND DRIFT (in.)	0.0	.3"	1.3"	3.0"	5.5"	9.0"	13.5"
VELOCITY (fps)	3700	3392	3105	2837	2584	2345	2119
WIND DRIFT (in.)	0.0	.3"	1.3"	3.1"	5.7"	9.3"	14.0"
VELOCITY (fps)	3600	3299	3019	2755	2507	2272	2050
WIND DRIFT (in.)	0.0	.3"	1.4"	3.2"	5.9"	9.6"	14.5"
VELOCITY (fps)	3500	3206	2932	2673	2429	2199	1980
WIND DRIFT (in.)	0.0	.3"	1.4"	3.3"	6.1"	10.0"	15.1"
VELOCITY (fps)	3400	3113	2844	2591	2351	2125	1911
WIND DRIFT (in.)	0.0	.4"	1.5"	3.4"	6.4"	10.4"	15.7"
VELOCITY (fps)	3300	3019	2756	2508	2273	2050	1841
WIND DRIFT (in.)	0.0	.4"	1.5"	3.6"	6.6"	10.8"	16.4"
VELOCITY (fps)	3200	2926	2668	2424	2194	1976	1772
WIND DRIFT (in.)	0.0	.4"	1.6"	3.7"	6.9"	11.3"	17.2"
VELOCITY (fps)	3100	2832	2579	2341	2114	1901	1703
WIND DRIFT (in.)	0.0	.4"	1.6"	3.9"	7.2"	11.9"	18.0"
VELOCITY (fps)	3000	2738	2491	2256	2035	1827	1634
WIND DRIFT (in.)	0.0	.4"	1.7"	4.1"	7.6"	12.5"	19.0"
VELOCITY (fps)	2900	2644	2401	2172	1955	1753	1566
WIND DRIFT (in.)	0.0	.4"	1.8"	4.3"	8.0"	13.1"	20.0"
VELOCITY (fps)	2800	2549	2312	2087	1876	1679	1500
WIND DRIFT (in.)	0.0	.5"	1.9"	4.5"	8.4"	13.9"	21.1"
VELOCITY (fps)	2700	2455	2222	2003	1797	1607	1435
WIND DRIFT (in.)	0.0	.5"	2.0"	4.7"	8.9"	14.6"	22.3"
VELOCITY (fps)	2600	2360	2133	1919	1719	1536	1373
WIND DRIFT (in.)	0.0	.5"	2.1"	5.0"	9.4"	15.5"	23.6"
VELOCITY (fps)	2500	2265	2043	1835	1641	1466	1313
WIND DRIFT (in.)	0.0	.5"	2.2"	5.3"	10.0"	16.4"	24.9"
VELOCITY (fps)	2400	2171	1954	1752	1565	1399	1256
WIND DRIFT (in.)	0.0	.6"	2.4"	5.7"	10.6"	17.5"	26.4"
VELOCITY (fps)	2300	2076	1865	1670	1491	1334	1203
WIND DRIFT (in.)	0.0	.6"	2.5"	6.0"	11.3"	18.5"	27.9"
VELOCITY (fps)	2200	1982	1777	1589	1419	1273	1155
WIND DRIFT (in.)	0.0	.6"	2.7"	6.4"	12.0"	19.7"	29.5"
VELOCITY (fps)	2100	1888	1690	1510	1350	1216	1112
WIND DRIFT (in.)	0.0	.7"	2.9"	6.9"	12.8"	20.9"	31.0"
VELOCITY (fps)	2000	1794	1604	1433	1285	1164	1073
WIND DRIFT (in.)	0.0	.7"	3.1"	7.3"	13.6"	22.0"	32.5"

BALLISTIC COEFFICIENT: .180 (continued)

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	1900	1701	1520	1359	1223	1117	1039
WIND DRIFT (in.)	0.0	.8"	3.3"	7.8"	14.4"	23.1"	33.8"
VELOCITY (fps)	1800	1610	1438	1289	1167	1076	1008
WIND DRIFT (in.)	0.0	.8"	3.5"	8.3"	15.2"	24.1"	34.9"
VELOCITY (fps)	1700	1519	1358	1222	1116	1039	980
WIND DRIFT (in.)	0.0	.9"	3.8"	8.8"	15.9"	24.9"	35.6"
VELOCITY (fps)	1600	1429	1281	1161	1072	1005	953
WIND DRIFT (in.)	0.0	1.0"	4.0"	9.2"	16.4"	25.4"	35.9"
VELOCITY (fps)	1500	1342	1209	1107	1031	974	927
WIND DRIFT (in.)	0.0	1.0"	4.2"	9.4"	16.6"	25.4"	35.6"

BALLISTIC COEFFICIENT: .200

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	4100	3795	3510	3244	2994	2758	2533
WIND DRIFT (in.)	0.0	.3"	1.1"	2.4"	4.5"	7.2"	10.8"
VELOCITY (fps)	4000	3701	3423	3162	2917	2685	2464
WIND DRIFT (in.)	0.0	.3"	1.1"	2.5"	4.6"	7.4"	11.1"
VELOCITY (fps)	3900	3608	3336	3080	2840	2611	2394
WIND DRIFT (in.)	0.0	.3"	1.1"	2.6"	4.7"	7.7"	11.5"
VELOCITY (fps)	3800	3515	3249	2998	2762	2537	2324
WIND DRIFT (in.)	0.0	.3"	1.1"	2.7"	4.9"	7.9"	11.8"
VELOCITY (fps)	3700	3422	3161	2916	2684	2463	2253
WIND DRIFT (in.)	0.0	.3"	1.2"	2.7"	5.0"	8.2"	12.3"
VELOCITY (fps)	3600	3328	3073	2833	2605	2388	2182
WIND DRIFT (in.)	0.0	.3"	1.2"	2.8"	5.2"	8.5"	12.7"
VELOCITY (fps)	3500	3235	2985	2749	2525	2312	2110
WIND DRIFT (in.)	0.0	.3"	1.3"	2.9"	5.4"	8.8"	13.2"
VELOCITY (fps)	3400	3141	2897	2665	2446	2236	2037
WIND DRIFT (in.)	0.0	.3"	1.3"	3.0"	5.6"	9.1"	13.7"
VELOCITY (fps)	3300	3047	2808	2581	2365	2160	1965
WIND DRIFT (in.)	0.0	.3"	1.4"	3.2"	5.8"	9.5"	14.3"
VELOCITY (fps)	3200	2952	2718	2496	2284	2083	1892
WIND DRIFT (in.)	0.0	.3"	1.4"	3.3"	6.1"	10.0"	15.0"
VELOCITY (fps)	3100	2858	2629	2411	2203	2006	1820
WIND DRIFT (in.)	0.0	.4"	1.5"	3.4"	6.4"	10.4"	15.7"
VELOCITY (fps)	3000	2763	2539	2325	2122	1929	1748
WIND DRIFT (in.)	0.0	.4"	1.5"	3.6"	6.7"	10.9"	16.5"
VELOCITY (fps)	2900	2669	2449	2239	2040	1852	1676
WIND DRIFT (in.)	0.0	.4"	1.6"	3.8"	7.0"	11.5"	17.4"
VELOCITY (fps)	2800	2574	2358	2153	1959	1776	1605
WIND DRIFT (in.)	0.0	.4"	1.7"	4.0"	7.4"	12.1"	18.3"
VELOCITY (fps)	2700	2479	2268	2067	1878	1700	1536
WIND DRIFT (in.)	0.0	.4"	1.8"	4.2"	7.8"	12.8"	19.4"
VELOCITY (fps)	2600	2383	2177	1981	1797	1625	1468
WIND DRIFT (in.)	0.0	.5"	1.9"	4.4"	8.3"	13.6"	20.5"
VELOCITY (fps)	2500	2288	2087	1896	1717	1551	1402
WIND DRIFT (in.)	0.0	.5"	2.0"	4.7"	8.8"	14.4"	21.8"
VELOCITY (fps)	2400	2193	1996	1811	1638	1479	1338
WIND DRIFT (in.)	0.0	.5"	2.1"	5.0"	9.3"	15.3"	23.1"
VELOCITY (fps)	2300	2098	1906	1727	1560	1410	1278
WIND DRIFT (in.)	0.0	.5"	2.3"	5.3"	10.0"	16.3"	24.5"
VELOCITY (fps)	2200	2003	1817	1644	1485	1343	1222
WIND DRIFT (in.)	0.0	.6"	2.4"	5.7"	10.6"	17.3"	25.9"
VELOCITY (fps)	2100	1908	1728	1562	1411	1280	1171
WIND DRIFT (in.)	0.0	.6"	2.6"	6.1"	11.3"	18.4"	27.4"
VELOCITY (fps)	2000	1814	1641	1482	1341	1221	1124
WIND DRIFT (in.)	0.0	.7"	2.8"	6.5"	12.0"	19.5"	28.9"
VELOCITY (fps)	1900	1721	1555	1405	1274	1166	1083
WIND DRIFT (in.)	0.0	.7"	3.0"	6.9"	12.8"	20.6"	30.2"
VELOCITY (fps)	1800	1628	1470	1331	1212	1118	1046
WIND DRIFT (in.)	0.0	.8"	3.2"	7.4"	13.5"	21.6"	31.4"
VELOCITY (fps)	1700	1536	1388	1260	1155	1075	1013
WIND DRIFT (in.)	0.0	.8"	3.4"	7.8"	14.2"	22.4"	32.2"
VELOCITY (fps)	1600	1445	1309	1194	1104	1036	983
WIND DRIFT (in.)	0.0	.9"	3.6"	8.2"	14.7"	23.0"	32.7"
VELOCITY (fps)	1500	1357	1233	1134	1059	1001	954
WIND DRIFT (in.)	0.0	.9"	3.8"	8.5"	15.0"	23.1"	32.5"

BALLISTIC COEFFICIENT: .220

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	4000	3728	3472	3232	3004	2789	2583
WIND DRIFT (in.)	0.0	.2"	1.0"	2.3"	4.1"	6.7"	9.9"
VELOCITY (fps)	3900	3634	3384	3149	2926	2714	2511
WIND DRIFT (in.)	0.0	.2"	1.0"	2.3"	4.3"	6.9"	10.2"

BALLISTIC COEFFICIENT: .220 (continued)

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	3800	3540	3296	3065	2846	2638	2439
WIND DRIFT (in.)	0.0	.3"	1.0"	2.4"	4.4"	7.1"	10.5"
VELOCITY (fps)	3700	3446	3207	2981	2767	2562	2366
WIND DRIFT (in.)	0.0	.3"	1.1"	2.5"	4.5"	7.3"	10.9"
VELOCITY (fps)	3600	3352	3118	2897	2686	2485	2293
WIND DRIFT (in.)	0.0	.3"	1.1"	2.6"	4.7"	7.6"	11.3"
VELOCITY (fps)	3500	3258	3029	2812	2606	2408	2219
WIND DRIFT (in.)	0.0	.3"	1.1"	2.6"	4.9"	7.8"	11.7"
VELOCITY (fps)	3400	3164	2940	2727	2524	2330	2145
WIND DRIFT (in.)	0.0	.3"	1.2"	2.7"	5.0"	8.2"	12.2"
VELOCITY (fps)	3300	3069	2850	2642	2442	2252	2070
WIND DRIFT (in.)	0.0	.3"	1.2"	2.8"	5.2"	8.5"	12.7"
VELOCITY (fps)	3200	2974	2760	2556	2360	2173	1995
WIND DRIFT (in.)	0.0	.3"	1.3"	3.0"	5.5"	8.9"	13.3"
VELOCITY (fps)	3100	2879	2670	2469	2278	2094	1920
WIND DRIFT (in.)	0.0	.3"	1.3"	3.1"	5.7"	9.3"	13.9"
VELOCITY (fps)	3000	2784	2579	2382	2195	2015	1845
WIND DRIFT (in.)	0.0	.3"	1.4"	3.2"	6.0"	9.7"	14.6"
VELOCITY (fps)	2900	2689	2488	2295	2111	1936	1771
WIND DRIFT (in.)	0.0	.4"	1.5"	3.4"	6.3"	10.2"	15.4"
VELOCITY (fps)	2800	2594	2397	2208	2028	1857	1696
WIND DRIFT (in.)	0.0	.4"	1.5"	3.6"	6.6"	10.8"	16.2"
VELOCITY (fps)	2700	2498	2305	2121	1945	1779	1623
WIND DRIFT (in.)	0.0	.4"	1.6"	3.8"	7.0"	11.4"	17.2"
VELOCITY (fps)	2600	2403	2214	2034	1863	1701	1551
WIND DRIFT (in.)	0.0	.4"	1.7"	4.0"	7.4"	12.1"	18.2"
VELOCITY (fps)	2500	2307	2123	1947	1780	1625	1481
WIND DRIFT (in.)	0.0	.4"	1.8"	4.2"	7.9"	12.8"	19.3"
VELOCITY (fps)	2400	2211	2031	1860	1699	1549	1413
WIND DRIFT (in.)	0.0	.5"	1.9"	4.5"	8.4"	13.6"	20.5"
VELOCITY (fps)	2300	2116	1940	1774	1619	1476	1348
WIND DRIFT (in.)	0.0	.5"	2.0"	4.8"	8.9"	14.5"	21.8"
VELOCITY (fps)	2200	2020	1850	1689	1541	1405	1285
WIND DRIFT (in.)	0.0	.5"	2.2"	5.1"	9.5"	15.4"	23.1"
VELOCITY (fps)	2100	1925	1760	1606	1464	1337	1227
WIND DRIFT (in.)	0.0	.6"	2.3"	5.5"	10.1"	16.4"	24.5"
VELOCITY (fps)	2000	1831	1671	1524	1390	1272	1174
WIND DRIFT (in.)	0.0	.6"	2.5"	5.8"	10.8"	17.5"	25.9"
VELOCITY (fps)	1900	1736	1584	1444	1319	1212	1126
WIND DRIFT (in.)	0.0	.6"	2.7"	6.2"	11.5"	18.5"	27.2"
VELOCITY (fps)	1800	1643	1498	1367	1252	1157	1083
WIND DRIFT (in.)	0.0	.7"	2.9"	6.7"	12.2"	19.5"	28.4"
VELOCITY (fps)	1700	1550	1414	1293	1190	1108	1045
WIND DRIFT (in.)	0.0	.7"	3.1"	7.1"	12.8"	20.3"	29.4"
VELOCITY (fps)	1600	1459	1332	1223	1134	1065	1010
WIND DRIFT (in.)	0.0	.8"	3.2"	7.4"	13.4"	20.9"	29.9"

BALLISTIC COEFFICIENT: .240

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	4000	3750	3514	3291	3079	2877	2685
WIND DRIFT (in.)	0.0	.2"	.9"	2.1"	3.8"	6.0"	8.9"
VELOCITY (fps)	3900	3655	3425	3206	2999	2801	2611
WIND DRIFT (in.)	0.0	.2"	.9"	2.1"	3.9"	6.2"	9.2"
VELOCITY (fps)	3800	3561	3335	3122	2918	2724	2537
WIND DRIFT (in.)	0.0	.2"	.9"	2.2"	4.0"	6.4"	9.5"
VELOCITY (fps)	3700	3467	3246	3037	2837	2646	2463
WIND DRIFT (in.)	0.0	.2"	1.0"	2.2"	4.1"	6.6"	9.8"
VELOCITY (fps)	3600	3372	3156	2951	2755	2568	2388
WIND DRIFT (in.)	0.0	.2"	1.0"	2.3"	4.2"	6.8"	10.2"
VELOCITY (fps)	3500	3278	3067	2866	2673	2489	2312
WIND DRIFT (in.)	0.0	.3"	1.0"	2.4"	4.4"	7.1"	10.5"
VELOCITY (fps)	3400	3183	2976	2779	2591	2410	2236
WIND DRIFT (in.)	0.0	.3"	1.1"	2.5"	4.6"	7.4"	11.0"
VELOCITY (fps)	3300	3088	2886	2693	2508	2330	2160
WIND DRIFT (in.)	0.0	.3"	1.1"	2.6"	4.7"	7.7"	11.4"
VELOCITY (fps)	3200	2993	2795	2606	2424	2250	2083
WIND DRIFT (in.)	0.0	.3"	1.2"	2.7"	4.9"	8.0"	11.9"
VELOCITY (fps)	3100	2897	2704	2518	2341	2170	2006
WIND DRIFT (in.)	0.0	.3"	1.2"	2.8"	5.2"	8.4"	12.5"
VELOCITY (fps)	3000	2802	2612	2431	2256	2089	1929
WIND DRIFT (in.)	0.0	.3"	1.3"	2.9"	5.4"	8.8"	13.1"
VELOCITY (fps)	2900	2706	2521	2343	2172	2008	1852
WIND DRIFT (in.)	0.0	.3"	1.3"	3.1"	5.7"	9.2"	13.8"
VELOCITY (fps)	2800	2611	2429	2255	2087	1927	1776
WIND DRIFT (in.)	0.0	.3"	1.4"	3.2"	6.0"	9.7"	14.6"

BALLISTIC COEFFICIENT: .240 (continued)

RANGE	MUZZLE	50 yds.	100 yds.	150 yds.	200 yds.	250 yds.	300 yds.
VELOCITY (fps)	2700	2515	2337	2166	2003	1847	1700
WIND DRIFT (in.)	0.0	.4"	1.5"	3.4"	6.3"	10.3"	15.4"
VELOCITY (fps)	2600	2419	2245	2078	1919	1767	1625
WIND DRIFT (in.)	0.0	.4"	1.5"	3.6"	6.7"	10.9"	16.3"
VELOCITY (fps)	2500	2323	2153	1990	1835	1688	1551
WIND DRIFT (in.)	0.0	.4"	1.6"	3.8"	7.1"	11.5"	17.3"
VELOCITY (fps)	2400	2227	2061	1902	1752	1610	1479
WIND DRIFT (in.)	0.0	.4"	1.7"	4.1"	7.5"	12.3"	18.4"
VELOCITY (fps)	2300	2131	1969	1815	1670	1534	1410
WIND DRIFT (in.)	0.0	.4"	1.9"	4.3"	8.0"	13.1"	19.5"
VELOCITY (fps)	2200	2035	1878	1729	1589	1460	1343
WIND DRIFT (in.)	0.0	.5"	2.0"	4.6"	8.6"	13.9"	20.8"
VELOCITY (fps)	2100	1940	1787	1643	1510	1388	1280
WIND DRIFT (in.)	0.0	.5"	2.1"	5.0"	9.1"	14.8"	22.1"
VELOCITY (fps)	2000	1844	1697	1560	1433	1319	1221
WIND DRIFT (in.)	0.0	.5"	2.3"	5.3"	9.8"	15.8"	23.4"
VELOCITY (fps)	1900	1750	1608	1478	1359	1255	1166
WIND DRIFT (in.)	0.0	.6"	2.4"	5.7"	10.4"	16.7"	24.7"
VELOCITY (fps)	1800	1656	1521	1398	1289	1195	1118
WIND DRIFT (in.)	0.0	.6"	2.6"	6.1"	11.1"	17.7"	25.9"
VELOCITY (fps)	1700	1562	1435	1321	1222	1140	1075
WIND DRIFT (in.)	0.0	.7"	2.8"	6.4"	11.7"	18.5"	26.9"
VELOCITY (fps)	1600	1470	1352	1249	1161	1091	1036
WIND DRIFT (in.)	0.0	.7"	3.0"	6.8"	12.2"	19.2"	27.6"

BALLISTIC COEFFICIENT: .240

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	4000	3514	3079	2685	2323	1990	1688
WIND DRIFT (in.)	0.0	.9"	3.8"	8.9"	16.9"	28.2"	43.9"
VELOCITY (fps)	3900	3425	2999	2611	2255	1928	1633
WIND DRIFT (in.)	0.0	.9"	3.9"	9.2"	17.4"	29.2"	45.4"
VELOCITY (fps)	3800	3335	2918	2537	2187	1866	1579
WIND DRIFT (in.)	0.0	.9"	4.0"	9.5"	18.0"	30.3"	47.2"
VELOCITY (fps)	3700	3246	2837	2463	2119	1804	1524
WIND DRIFT (in.)	0.0	1.0"	4.1"	9.8"	18.7"	31.4"	49.0"
VELOCITY (fps)	3600	3156	2755	2388	2050	1742	1471
WIND DRIFT (in.)	0.0	1.0"	4.2"	10.2"	19.4"	32.7"	51.0"
VELOCITY (fps)	3500	3067	2673	2312	1980	1680	1418
WIND DRIFT (in.)	0.0	1.0"	4.4"	10.5"	20.1"	34.0"	53.2"
VELOCITY (fps)	3400	2976	2591	2236	1911	1618	1367
WIND DRIFT (in.)	0.0	1.1"	4.6"	11.0"	21.0"	35.5"	55.5"
VELOCITY (fps)	3300	2886	2508	2160	1841	1557	1317
WIND DRIFT (in.)	0.0	1.1"	4.7"	11.4"	21.9"	37.1"	58.1"
VELOCITY (fps)	3200	2795	2424	2083	1772	1497	1269
WIND DRIFT (in.)	0.0	1.2"	4.9"	11.9"	22.9"	38.9"	60.8"
VELOCITY (fps)	3100	2704	2341	2006	1703	1438	1224
WIND DRIFT (in.)	0.0	1.2"	5.2"	12.5"	24.1"	40.8"	63.7"
VELOCITY (fps)	3000	2612	2256	1929	1634	1380	1182
WIND DRIFT (in.)	0.0	1.3"	5.4"	13.1"	25.3"	42.9"	66.8"
VELOCITY (fps)	2900	2521	2172	1852	1566	1325	1142
WIND DRIFT (in.)	0.0	1.3"	5.7"	13.8"	26.6"	45.1"	70.0"
VELOCITY (fps)	2800	2429	2087	1776	1500	1272	1107
WIND DRIFT (in.)	0.0	1.4"	6.0"	14.6"	28.1"	47.5"	73.4"
VELOCITY (fps)	2700	2337	2003	1700	1435	1222	1074
WIND DRIFT (in.)	0.0	1.5"	6.3"	15.4"	29.7"	50.1"	76.8"
VELOCITY (fps)	2600	2245	1919	1625	1373	1176	1045
WIND DRIFT (in.)	0.0	1.5"	6.7"	16.3"	31.4"	52.8"	80.3"
VELOCITY (fps)	2500	2153	1835	1551	1313	1134	1019
WIND DRIFT (in.)	0.0	1.6"	7.1"	17.3"	33.2"	55.6"	83.8"
VELOCITY (fps)	2400	2061	1752	1479	1256	1096	994
WIND DRIFT (in.)	0.0	1.7"	7.5"	18.4"	35.2"	58.4"	87.1"
VELOCITY (fps)	2300	1969	1670	1410	1203	1062	971
WIND DRIFT (in.)	0.0	1.9"	8.0"	19.5"	37.2"	61.2"	90.3"
VELOCITY (fps)	2200	1878	1589	1343	1155	1032	950
WIND DRIFT (in.)	0.0	2.0"	8.6"	20.8"	39.3"	63.9"	93.3"
VELOCITY (fps)	2100	1787	1510	1280	1112	1004	930
WIND DRIFT (in.)	0.0	2.1"	9.1"	22.1"	41.4"	66.4"	95.9"
VELOCITY (fps)	2000	1697	1433	1221	1073	979	910
WIND DRIFT (in.)	0.0	2.3"	9.8"	23.4"	43.3"	68.6"	98.2"
VELOCITY (fps)	1900	1608	1359	1166	1039	955	891
WIND DRIFT (in.)	0.0	2.4"	10.4"	24.7"	45.1"	70.4"	99.9"
VELOCITY (fps)	1800	1521	1289	1118	1008	933	873
WIND DRIFT (in.)	0.0	2.6"	11.1"	25.9"	46.5"	71.7"	100.9"

Hornady
HANDBOOK

BALLISTIC COEFFICIENT: .240 (continued)

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1435	1222	1075	980	911	855
WIND DRIFT (in.)	0.0	2.8"	11.7"	26.9"	47.4"	72.3"	101.2"
VELOCITY (fps)	1600	1352	1161	1036	953	890	837
WIND DRIFT (in.)	0.0	3.0"	12.2"	27.6"	47.8"	72.2"	100.5"

BALLISTIC COEFFICIENT: .270

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	4000	3565	3172	2812	2480	2171	1886
WIND DRIFT (in.)	0.0	.8"	3.3"	7.8"	14.6"	24.1"	37.0"
VELOCITY (fps)	3900	3475	3090	2737	2410	2106	1826
WIND DRIFT (in.)	0.0	.8"	3.4"	8.0"	15.0"	24.9"	38.3"
VELOCITY (fps)	3800	3385	3007	2661	2339	2041	1766
WIND DRIFT (in.)	0.0	.8"	3.5"	8.3"	15.5"	25.8"	39.7"
VELOCITY (fps)	3700	3294	2925	2584	2268	1975	1706
WIND DRIFT (in.)	0.0	.9"	3.6"	8.5"	16.1"	26.8"	41.3"
VELOCITY (fps)	3600	3203	2841	2507	2196	1909	1647
WIND DRIFT (in.)	0.0	.9"	3.7"	8.8"	16.7"	27.8"	42.9"
VELOCITY (fps)	3500	3113	2758	2429	2124	1842	1588
WIND DRIFT (in.)	0.0	.9"	3.9"	9.2"	17.3"	28.9"	44.7"
VELOCITY (fps)	3400	3021	2674	2351	2052	1776	1529
WIND DRIFT (in.)	0.0	.9"	4.0"	9.5"	18.0"	30.2"	46.7"
VELOCITY (fps)	3300	2930	2589	2273	1979	1710	1471
WIND DRIFT (in.)	0.0	1.0"	4.2"	9.9"	18.8"	31.5"	48.8"
VELOCITY (fps)	3200	2838	2504	2194	1906	1645	1415
WIND DRIFT (in.)	0.0	1.0"	4.3"	10.4"	19.7"	33.0"	51.2"
VELOCITY (fps)	3100	2746	2419	2114	1833	1580	1360
WIND DRIFT (in.)	0.0	1.1"	4.5"	10.8"	20.6"	34.6"	53.7"
VELOCITY (fps)	3000	2654	2333	2035	1761	1515	1307
WIND DRIFT (in.)	0.0	1.1"	4.7"	11.4"	21.7"	36.4"	56.4"
VELOCITY (fps)	2900	2561	2247	1955	1689	1453	1257
WIND DRIFT (in.)	0.0	1.2"	5.0"	12.0"	22.8"	38.4"	59.3"
VELOCITY (fps)	2800	2469	2161	1876	1617	1392	1209
WIND DRIFT (in.)	0.0	1.2"	5.2"	12.6"	24.1"	40.5"	62.4"
VELOCITY (fps)	2700	2376	2075	1797	1547	1333	1165
WIND DRIFT (in.)	0.0	1.3"	5.5"	13.3"	25.4"	42.7"	65.6"
VELOCITY (fps)	2600	2283	1988	1719	1479	1277	1125
WIND DRIFT (in.)	0.0	1.4"	5.8"	14.1"	26.9"	45.1"	69.0"
VELOCITY (fps)	2500	2190	1903	1641	1412	1225	1089
WIND DRIFT (in.)	0.0	1.4"	6.2"	15.0"	28.6"	47.7"	72.4"
VELOCITY (fps)	2400	2097	1817	1565	1348	1176	1057
WIND DRIFT (in.)	0.0	1.5"	6.6"	15.9"	30.3"	50.3"	75.8"
VELOCITY (fps)	2300	2004	1733	1491	1287	1132	1028
WIND DRIFT (in.)	0.0	1.6"	7.0"	16.9"	32.1"	53.1"	79.2"
VELOCITY (fps)	2200	1912	1650	1419	1230	1093	1002
WIND DRIFT (in.)	0.0	1.7"	7.5"	18.0"	34.1"	55.8"	82.3"
VELOCITY (fps)	2100	1820	1568	1350	1178	1058	977
WIND DRIFT (in.)	0.0	1.9"	8.0"	19.2"	36.0"	58.3"	85.2"
VELOCITY (fps)	2000	1729	1488	1285	1131	1027	954
WIND DRIFT (in.)	0.0	2.0"	8.5"	20.4"	38.0"	60.7"	87.7"
VELOCITY (fps)	1900	1639	1410	1223	1088	998	932
WIND DRIFT (in.)	0.0	2.1"	9.1"	21.6"	39.7"	62.7"	89.8"
VELOCITY (fps)	1800	1550	1335	1167	1051	972	911
WIND DRIFT (in.)	0.0	2.3"	9.7"	22.8"	41.3"	64.3"	91.1"
VELOCITY (fps)	1700	1463	1264	1116	1017	947	891
WIND DRIFT (in.)	0.0	2.5"	10.3"	23.8"	42.4"	65.3"	91.7"
VELOCITY (fps)	1600	1377	1198	1072	987	923	871
WIND DRIFT (in.)	0.0	2.6"	10.8"	24.6"	43.1"	65.4"	91.4"

BALLISTIC COEFFICIENT: .300

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	4000	3606	3247	2917	2610	2323	2054
WIND DRIFT (in.)	0.0	.7"	2.9"	6.9"	12.8"	21.1"	32.1"
VELOCITY (fps)	3900	3515	3164	2840	2538	2255	1991
WIND DRIFT (in.)	0.0	.7"	3.0"	7.1"	13.2"	21.8"	33.2"
VELOCITY (fps)	3800	3424	3080	2762	2465	2187	1928
WIND DRIFT (in.)	0.0	.7"	3.1"	7.3"	13.7"	22.5"	34.3"
VELOCITY (fps)	3700	3333	2996	2684	2392	2119	1864
WIND DRIFT (in.)	0.0	.8"	3.2"	7.6"	14.1"	23.3"	35.6"
VELOCITY (fps)	3600	3241	2911	2605	2318	2050	1801
WIND DRIFT (in.)	0.0	.8"	3.3"	7.8"	14.7"	24.2"	37.0"
VELOCITY (fps)	3500	3150	2826	2525	2244	1980	1737
WIND DRIFT (in.)	0.0	.8"	3.4"	8.1"	15.2"	25.2"	38.6"

BALLISTIC COEFFICIENT: .300 (continued)

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3400	3058	2741	2446	2169	1911	1674
WIND DRIFT (in.)	0.0	.9"	3.6"	8.4"	15.8"	26.2"	40.2"
VELOCITY (fps)	3300	2966	2655	2365	2094	1841	1611
WIND DRIFT (in.)	0.0	.9"	3.7"	8.8"	16.5"	27.4"	42.1"
VELOCITY (fps)	3200	2873	2569	2284	2018	1772	1548
WIND DRIFT (in.)	0.0	.9"	3.9"	9.2"	17.2"	28.7"	44.1"
VELOCITY (fps)	3100	2780	2482	2203	1943	1703	1487
WIND DRIFT (in.)	0.0	1.0"	4.0"	9.6"	18.1"	30.1"	46.2"
VELOCITY (fps)	3000	2687	2395	2122	1867	1634	1427
WIND DRIFT (in.)	0.0	1.0"	4.2"	10.0"	19.0"	31.6"	48.6"
VELOCITY (fps)	2900	2594	2308	2040	1792	1566	1369
WIND DRIFT (in.)	0.0	1.0"	4.4"	10.5"	20.0"	33.3"	51.2"
VELOCITY (fps)	2800	2501	2221	1959	1717	1500	1313
WIND DRIFT (in.)	0.0	1.1"	4.6"	11.1"	21.1"	35.1"	53.9"
VELOCITY (fps)	2700	2407	2133	1878	1643	1435	1260
WIND DRIFT (in.)	0.0	1.2"	4.9"	11.7"	22.3"	37.1"	56.9"
VELOCITY (fps)	2600	2314	2045	1797	1571	1373	1210
WIND DRIFT (in.)	0.0	1.2"	5.2"	12.4"	23.6"	39.3"	60.0"
VELOCITY (fps)	2500	2220	1958	1717	1499	1313	1164
WIND DRIFT (in.)	0.0	1.3"	5.5"	13.2"	25.0"	41.6"	63.3"
VELOCITY (fps)	2400	2126	1871	1638	1430	1256	1123
WIND DRIFT (in.)	0.0	1.4"	5.8"	14.0"	26.5"	44.0"	66.6"
VELOCITY (fps)	2300	2033	1785	1560	1364	1203	1086
WIND DRIFT (in.)	0.0	1.5"	6.2"	14.9"	28.2"	46.6"	69.9"
VELOCITY (fps)	2200	1940	1700	1485	1300	1155	1052
WIND DRIFT (in.)	0.0	1.6"	6.6"	15.9"	30.0"	49.2"	73.2"
VELOCITY (fps)	2100	1847	1616	1411	1241	1112	1022
WIND DRIFT (in.)	0.0	1.7"	7.1"	17.0"	31.8"	51.7"	76.2"
VELOCITY (fps)	2000	1755	1533	1341	1186	1073	995
WIND DRIFT (in.)	0.0	1.8"	7.6"	18.1"	33.6"	54.2"	78.9"
VELOCITY (fps)	1900	1664	1453	1274	1136	1039	970
WIND DRIFT (in.)	0.0	1.9"	8.1"	19.2"	35.4"	56.3"	81.2"
VELOCITY (fps)	1800	1574	1375	1212	1092	1008	946
WIND DRIFT (in.)	0.0	2.1"	8.7"	20.3"	37.0"	58.1"	82.9"
VELOCITY (fps)	1700	1485	1300	1155	1052	980	923
WIND DRIFT (in.)	0.0	2.2"	9.2"	21.3"	38.3"	59.3"	83.8"
VELOCITY (fps)	1600	1398	1230	1104	1017	953	901
WIND DRIFT (in.)	0.0	2.3"	9.7"	22.1"	39.1"	59.8"	83.8"

BALLISTIC COEFFICIENT: .330

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3180	2883	2606	2344	2098	1867
WIND DRIFT (in.)	0.0	.7"	3.1"	7.3"	13.6"	22.3"	33.9"
VELOCITY (fps)	3400	3088	2797	2524	2267	2026	1800
WIND DRIFT (in.)	0.0	.8"	3.2"	7.6"	14.1"	23.2"	35.3"
VELOCITY (fps)	3300	2995	2710	2442	2190	1954	1733
WIND DRIFT (in.)	0.0	.8"	3.3"	7.9"	14.7"	24.2"	36.9"
VELOCITY (fps)	3200	2902	2623	2360	2113	1881	1667
WIND DRIFT (in.)	0.0	.8"	3.5"	8.2"	15.3"	25.3"	38.7"
VELOCITY (fps)	3100	2808	2535	2278	2035	1809	1601
WIND DRIFT (in.)	0.0	.9"	3.6"	8.6"	16.1"	26.5"	40.5"
VELOCITY (fps)	3000	2715	2447	2195	1958	1737	1536
WIND DRIFT (in.)	0.0	.9"	3.8"	9.0"	16.9"	27.9"	42.6"
VELOCITY (fps)	2900	2621	2359	2111	1880	1666	1473
WIND DRIFT (in.)	0.0	.9"	4.0"	9.4"	17.7"	29.4"	44.9"
VELOCITY (fps)	2800	2527	2270	2028	1803	1595	1411
WIND DRIFT (in.)	0.0	1.0"	4.2"	9.9"	18.7"	31.0"	47.3"
VELOCITY (fps)	2700	2433	2182	1945	1726	1526	1351
WIND DRIFT (in.)	0.0	1.0"	4.4"	10.5"	19.8"	32.8"	50.0"
VELOCITY (fps)	2600	2339	2093	1863	1650	1459	1294
WIND DRIFT (in.)	0.0	1.1"	4.7"	11.1"	20.9"	34.7"	52.8"
VELOCITY (fps)	2500	2245	2004	1780	1575	1393	1240
WIND DRIFT (in.)	0.0	1.2"	4.9"	11.8"	22.2"	36.8"	55.9"
VELOCITY (fps)	2400	2150	1916	1699	1502	1331	1190
WIND DRIFT (in.)	0.0	1.2"	5.3"	12.5"	23.6"	39.0"	59.0"
VELOCITY (fps)	2300	2056	1829	1619	1431	1271	1144
WIND DRIFT (in.)	0.0	1.3"	5.6"	13.3"	25.1"	41.3"	62.2"
VELOCITY (fps)	2200	1963	1742	1541	1363	1216	1103
WIND DRIFT (in.)	0.0	1.4"	6.0"	14.2"	26.7"	43.8"	65.5"
VELOCITY (fps)	2100	1869	1656	1464	1298	1165	1067
WIND DRIFT (in.)	0.0	1.5"	6.4"	15.2"	28.4"	46.2"	68.6"
VELOCITY (fps)	2000	1776	1572	1390	1237	1119	1035
WIND DRIFT (in.)	0.0	1.6"	6.8"	16.2"	30.1"	48.7"	71.4"
VELOCITY (fps)	1900	1684	1489	1319	1181	1079	1005
WIND DRIFT (in.)	0.0	1.7"	7.3"	17.2"	31.8"	50.9"	73.9"

BALLISTIC COEFFICIENT: .330 (continued)

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1800	1593	1409	1252	1130	1043	978
WIND DRIFT (in.)	0.0	1.9"	7.8"	18.3"	33.4"	52.8"	75.8"
VELOCITY (fps)	1700	1503	1331	1190	1085	1010	953
WIND DRIFT (in.)	0.0	2.0"	8.3"	19.3"	34.8"	54.2"	77.0"
VELOCITY (fps)	1600	1415	1257	1134	1045	980	928
WIND DRIFT (in.)	0.0	2.1"	8.8"	20.1"	35.7"	54.9"	77.3"

BALLISTIC COEFFICIENT: .330

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3600	2970	2686	2169	1934	1200
WIND DRIFT (in.)	0.0	3.0"	7.0"	21.4"	32.6"	114.3"
VELOCITY (fps)	3500	2883	2606	2098	1867	1164
WIND DRIFT (in.)	0.0	3.1"	7.3"	22.3"	33.9"	119.0"
VELOCITY (fps)	3400	2797	2524	2026	1800	1130
WIND DRIFT (in.)	0.0	3.2"	7.6"	23.2"	35.3"	123.9"
VELOCITY (fps)	3300	2710	2442	1954	1733	1100
WIND DRIFT (in.)	0.0	3.3"	7.9"	24.2"	36.9"	129.1"
VELOCITY (fps)	3200	2623	2360	1881	1667	1072
WIND DRIFT (in.)	0.0	3.5"	8.2"	25.3"	38.7"	134.5"
VELOCITY (fps)	3100	2535	2278	1809	1601	1046
WIND DRIFT (in.)	0.0	3.6"	8.6"	26.5"	40.5"	140.0"
VELOCITY (fps)	3000	2447	2195	1737	1536	1022
WIND DRIFT (in.)	0.0	3.8"	9.0"	27.9"	42.6"	145.6"
VELOCITY (fps)	2900	2359	2111	1666	1473	1000
WIND DRIFT (in.)	0.0	4.0"	9.4"	29.4"	44.9"	151.3"
VELOCITY (fps)	2800	2270	2028	1595	1411	979
WIND DRIFT (in.)	0.0	4.2"	9.9"	31.0"	47.3"	157.1"
VELOCITY (fps)	2700	2182	1945	1526	1351	959
WIND DRIFT (in.)	0.0	4.4"	10.5"	32.8"	50.0"	162.8"
VELOCITY (fps)	2600	2093	1863	1459	1294	940
WIND DRIFT (in.)	0.0	4.7"	11.1"	34.7"	52.8"	168.4"
VELOCITY (fps)	2500	2004	1780	1393	1240	922
WIND DRIFT (in.)	0.0	4.9"	11.8"	36.8"	55.9"	173.8"
VELOCITY (fps)	2400	1916	1699	1331	1190	905
WIND DRIFT (in.)	0.0	5.3"	12.5"	39.0"	59.0"	178.9"

BALLISTIC COEFFICIENT: .360

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3206	2932	2673	2429	2199	1980
WIND DRIFT (in.)	0.0	.7"	2.8"	6.6"	12.2"	20.0"	30.2"
VELOCITY (fps)	3400	3113	2844	2591	2351	2125	1911
WIND DRIFT (in.)	0.0	.7"	2.9"	6.8"	12.7"	20.8"	31.5"
VELOCITY (fps)	3300	3019	2756	2508	2273	2050	1841
WIND DRIFT (in.)	0.0	.7"	3.0"	7.1"	13.2"	21.7"	32.9"
VELOCITY (fps)	3200	2926	2668	2424	2194	1976	1772
WIND DRIFT (in.)	0.0	.8"	3.2"	7.4"	13.8"	22.7"	34.4"
VELOCITY (fps)	3100	2832	2579	2341	2114	1901	1703
WIND DRIFT (in.)	0.0	.8"	3.3"	7.8"	14.5"	23.8"	36.1"
VELOCITY (fps)	3000	2738	2491	2256	2035	1827	1634
WIND DRIFT (in.)	0.0	.8"	3.4"	8.1"	15.2"	25.0"	37.9"
VELOCITY (fps)	2900	2644	2401	2172	1955	1753	1566
WIND DRIFT (in.)	0.0	.9"	3.6"	8.5"	15.9"	26.3"	39.9"
VELOCITY (fps)	2800	2549	2312	2087	1876	1679	1500
WIND DRIFT (in.)	0.0	.9"	3.8"	9.0"	16.8"	27.7"	42.1"
VELOCITY (fps)	2700	2455	2222	2003	1797	1607	1435
WIND DRIFT (in.)	0.0	1.0"	4.0"	9.5"	17.8"	29.3"	44.5"
VELOCITY (fps)	2600	2360	2133	1919	1719	1536	1373
WIND DRIFT (in.)	0.0	1.0"	4.2"	10.0"	18.8"	31.0"	47.1"
VELOCITY (fps)	2500	2265	2043	1835	1641	1466	1313
WIND DRIFT (in.)	0.0	1.1"	4.5"	10.6"	20.0"	32.9"	49.9"
VELOCITY (fps)	2400	2171	1954	1752	1565	1399	1256
WIND DRIFT (in.)	0.0	1.1"	4.8"	11.3"	21.2"	34.9"	52.8"
VELOCITY (fps)	2300	2076	1865	1670	1491	1334	1203
WIND DRIFT (in.)	0.0	1.2"	5.1"	12.1"	22.6"	37.1"	55.9"
VELOCITY (fps)	2200	1982	1777	1589	1419	1273	1155
WIND DRIFT (in.)	0.0	1.3"	5.4"	12.9"	24.0"	39.4"	59.0"
VELOCITY (fps)	2100	1888	1690	1510	1350	1216	1112
WIND DRIFT (in.)	0.0	1.4"	5.8"	13.7"	25.6"	41.7"	62.1"
VELOCITY (fps)	2000	1794	1604	1433	1285	1164	1073
WIND DRIFT (in.)	0.0	1.5"	6.2"	14.7"	27.2"	44.1"	65.0"
VELOCITY (fps)	1900	1701	1520	1359	1223	1117	1039
WIND DRIFT (in.)	0.0	1.6"	6.6"	15.6"	28.8"	46.3"	67.6"
VELOCITY (fps)	1800	1610	1438	1289	1167	1076	1008
WIND DRIFT (in.)	0.0	1.7"	7.1"	16.6"	30.4"	48.3"	69.7"

BALLISTIC COEFFICIENT: .360 (continued)

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	1700	1519	1358	1222	1116	1039	980
WIND DRIFT (in.)	0.0	1.8"	7.6"	17.5"	31.8"	49.8"	71.2"
VELOCITY (fps)	1600	1429	1281	1161	1072	1005	953
WIND DRIFT (in.)	0.0	1.9"	8.0"	18.3"	32.8"	50.7"	71.7"

BALLISTIC COEFFICIENT: .400

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3235	2985	2749	2525	2312	2110
WIND DRIFT (in.)	0.0	.6"	2.5"	5.9"	10.8"	17.6"	26.4"
VELOCITY (fps)	3400	3141	2897	2665	2446	2236	2037
WIND DRIFT (in.)	0.0	.6"	2.6"	6.1"	11.2"	18.3"	27.5"
VELOCITY (fps)	3300	3047	2808	2581	2365	2160	1965
WIND DRIFT (in.)	0.0	.7"	2.7"	6.3"	11.7"	19.1"	28.7"
VELOCITY (fps)	3200	2952	2718	2496	2284	2083	1892
WIND DRIFT (in.)	0.0	.7"	2.8"	6.6"	12.2"	19.9"	30.0"
VELOCITY (fps)	3100	2858	2629	2411	2203	2006	1820
WIND DRIFT (in.)	0.0	.7"	2.9"	6.9"	12.8"	20.8"	31.4"
VELOCITY (fps)	3000	2763	2539	2325	2122	1929	1748
WIND DRIFT (in.)	0.0	.7"	3.1"	7.2"	13.4"	21.9"	33.0"
VELOCITY (fps)	2900	2669	2449	2239	2040	1852	1676
WIND DRIFT (in.)	0.0	.8"	3.2"	7.6"	14.1"	23.0"	34.8"
VELOCITY (fps)	2800	2574	2358	2153	1959	1776	1605
WIND DRIFT (in.)	0.0	.8"	3.4"	8.0"	14.8"	24.3"	36.7"
VELOCITY (fps)	2700	2479	2268	2067	1878	1700	1536
WIND DRIFT (in.)	0.0	.9"	3.6"	8.4"	15.6"	25.7"	38.8"
VELOCITY (fps)	2600	2383	2177	1981	1797	1625	1468
WIND DRIFT (in.)	0.0	.9"	3.8"	8.9"	16.6"	27.2"	41.1"
VELOCITY (fps)	2500	2288	2087	1896	1717	1551	1402
WIND DRIFT (in.)	0.0	1.0"	4.0"	9.4"	17.6"	28.8"	43.5"
VELOCITY (fps)	2400	2193	1996	1811	1638	1479	1338
WIND DRIFT (in.)	0.0	1.0"	4.3"	10.0"	18.7"	30.6"	46.2"
VELOCITY (fps)	2300	2098	1906	1727	1560	1410	1278
WIND DRIFT (in.)	0.0	1.1"	4.5"	10.7"	19.9"	32.6"	49.0"
VELOCITY (fps)	2200	2003	1817	1644	1485	1343	1222
WIND DRIFT (in.)	0.0	1.2"	4.8"	11.4"	21.2"	34.6"	51.9"
VELOCITY (fps)	2100	1908	1728	1562	1411	1280	1171
WIND DRIFT (in.)	0.0	1.2"	5.2"	12.2"	22.6"	36.8"	54.8"
VELOCITY (fps)	2000	1814	1641	1482	1341	1221	1124
WIND DRIFT (in.)	0.0	1.3"	5.5"	13.0"	24.1"	39.0"	57.7"
VELOCITY (fps)	1900	1721	1555	1405	1274	1166	1083
WIND DRIFT (in.)	0.0	1.4"	5.9"	13.9"	25.6"	41.2"	60.4"
VELOCITY (fps)	1800	1628	1470	1331	1212	1118	1046
WIND DRIFT (in.)	0.0	1.5"	6.3"	14.8"	27.1"	43.2"	62.7"

BALLISTIC COEFFICIENT: .440

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3500	3258	3029	2812	2606	2408	2219
WIND DRIFT (in.)	0.0	.6"	2.3"	5.3"	9.7"	15.7"	23.5"
VELOCITY (fps)	3400	3164	2940	2727	2524	2330	2145
WIND DRIFT (in.)	0.0	.6"	2.4"	5.5"	10.1"	16.3"	24.4"
VELOCITY (fps)	3300	3069	2850	2642	2442	2252	2070
WIND DRIFT (in.)	0.0	.6"	2.4"	5.7"	10.5"	17.0"	25.4"
VELOCITY (fps)	3200	2974	2760	2556	2360	2173	1995
WIND DRIFT (in.)	0.0	.6"	2.5"	5.9"	10.9"	17.7"	26.6"
VELOCITY (fps)	3100	2879	2670	2469	2278	2094	1920
WIND DRIFT (in.)	0.0	.6"	2.7"	6.2"	11.4"	18.6"	27.9"
VELOCITY (fps)	3000	2784	2579	2382	2195	2015	1845
WIND DRIFT (in.)	0.0	.7"	2.8"	6.5"	12.0"	19.5"	29.3"
VELOCITY (fps)	2900	2689	2488	2295	2111	1936	1771
WIND DRIFT (in.)	0.0	.7"	2.9"	6.8"	12.6"	20.5"	30.8"
VELOCITY (fps)	2800	2594	2397	2208	2028	1857	1696
WIND DRIFT (in.)	0.0	.7"	3.1"	7.2"	13.2"	21.6"	32.5"
VELOCITY (fps)	2700	2498	2305	2121	1945	1779	1623
WIND DRIFT (in.)	0.0	.8"	3.2"	7.5"	14.0"	22.8"	34.3"
VELOCITY (fps)	2600	2403	2214	2034	1863	1701	1551
WIND DRIFT (in.)	0.0	.8"	3.4"	8.0"	14.8"	24.2"	36.4"
VELOCITY (fps)	2500	2307	2123	1947	1780	1625	1481
WIND DRIFT (in.)	0.0	.9"	3.6"	8.5"	15.7"	25.6"	38.6"
VELOCITY (fps)	2400	2211	2031	1860	1699	1549	1413
WIND DRIFT (in.)	0.0	.9"	3.8"	9.0"	16.7"	27.3"	41.0"
VELOCITY (fps)	2300	2116	1940	1774	1619	1476	1348
WIND DRIFT (in.)	0.0	1.0"	4.1"	9.6"	17.8"	29.0"	43.5"
VELOCITY (fps)	2200	2020	1850	1689	1541	1405	1285
WIND DRIFT (in.)	0.0	1.0"	4.4"	10.2"	19.0"	30.9"	46.2"

BALLISTIC COEFFICIENT: .440 (continued)

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	2100	1925	1760	1606	1464	1337	1227
WIND DRIFT (in.)	0.0	1.1"	4.7"	10.9"	20.2"	32.9"	49.0"
VELOCITY (fps)	2000	1831	1671	1524	1390	1272	1174
WIND DRIFT (in.)	0.0	1.2"	5.0"	11.7"	21.6"	34.9"	51.8"
VELOCITY (fps)	1900	1736	1584	1444	1319	1212	1126
WIND DRIFT (in.)	0.0	1.3"	5.3"	12.5"	23.0"	37.0"	54.4"
VELOCITY (fps)	1800	1643	1498	1367	1252	1157	1083
WIND DRIFT (in.)	0.0	1.4"	5.7"	13.3"	24.4"	38.9"	56.8"

BALLISTIC COEFFICIENT: .450

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3300	2860	2655	2273	2094	1471
WIND DRIFT (in.)	0.0	2.4"	5.6"	16.5"	24.8"	81.4"
VELOCITY (fps)	3200	2769	2569	2194	2018	1415
WIND DRIFT (in.)	0.0	2.5"	5.8"	17.3"	25.9"	85.3"
VELOCITY (fps)	3100	2679	2482	2114	1943	1360
WIND DRIFT (in.)	0.0	2.6"	6.0"	18.1"	27.1"	89.5"
VELOCITY (fps)	3000	2588	2395	2035	1867	1307
WIND DRIFT (in.)	0.0	2.7"	6.3"	19.0"	28.4"	94.0"
VELOCITY (fps)	2900	2497	2308	1955	1792	1257
WIND DRIFT (in.)	0.0	2.8"	6.6"	19.9"	29.9"	98.8"
VELOCITY (fps)	2800	2405	2221	1876	1717	1209
WIND DRIFT (in.)	0.0	3.0"	7.0"	21.0"	31.6"	104.0"
VELOCITY (fps)	2700	2314	2133	1797	1643	1165
WIND DRIFT (in.)	0.0	3.1"	7.4"	22.2"	33.4"	109.4"
VELOCITY (fps)	2600	2222	2045	1719	1571	1125
WIND DRIFT (in.)	0.0	3.3"	7.8"	23.5"	35.3"	115.0"
VELOCITY (fps)	2500	2131	1958	1641	1499	1089
WIND DRIFT (in.)	0.0	3.5"	8.3"	24.9"	37.5"	120.7"
VELOCITY (fps)	2400	2039	1871	1565	1430	1057
WIND DRIFT (in.)	0.0	3.7"	8.8"	26.5"	39.8"	126.4"
VELOCITY (fps)	2300	1948	1785	1491	1364	1028
WIND DRIFT (in.)	0.0	4.0"	9.3"	28.2"	42.3"	132.0"
VELOCITY (fps)	2200	1857	1700	1419	1300	1002
WIND DRIFT (in.)	0.0	4.3"	10.0"	30.1"	44.9"	137.2"

BALLISTIC COEFFICIENT: .480

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3300	3088	2886	2693	2508	2330	2160
WIND DRIFT (in.)	0.0	.5"	2.2"	5.2"	9.5"	15.3"	22.9"
VELOCITY (fps)	3200	2993	2795	2606	2424	2250	2083
WIND DRIFT (in.)	0.0	.6"	2.3"	5.4"	9.9"	16.0"	23.9"
VELOCITY (fps)	3100	2897	2704	2518	2341	2170	2006
WIND DRIFT (in.)	0.0	.6"	2.4"	5.6"	10.3"	16.7"	25.0"
VELOCITY (fps)	3000	2802	2612	2431	2256	2089	1929
WIND DRIFT (in.)	0.0	.6"	2.5"	5.9"	10.8"	17.5"	26.3"
VELOCITY (fps)	2900	2706	2521	2343	2172	2008	1852
WIND DRIFT (in.)	0.0	.6"	2.7"	6.2"	11.4"	18.4"	27.6"
VELOCITY (fps)	2800	2611	2429	2255	2087	1927	1776
WIND DRIFT (in.)	0.0	.7"	2.8"	6.5"	12.0"	19.4"	29.1"
VELOCITY (fps)	2700	2515	2337	2166	2003	1847	1700
WIND DRIFT (in.)	0.0	.7"	2.9"	6.8"	12.6"	20.5"	30.8"
VELOCITY (fps)	2600	2419	2245	2078	1919	1767	1625
WIND DRIFT (in.)	0.0	.7"	3.1"	7.2"	13.4"	21.7"	32.6"
VELOCITY (fps)	2500	2323	2153	1990	1835	1688	1551
WIND DRIFT (in.)	0.0	.8"	3.3"	7.7"	14.2"	23.1"	34.6"
VELOCITY (fps)	2400	2227	2061	1902	1752	1610	1479
WIND DRIFT (in.)	0.0	.8"	3.5"	8.2"	15.1"	24.5"	36.8"
VELOCITY (fps)	2300	2131	1969	1815	1670	1534	1410
WIND DRIFT (in.)	0.0	.9"	3.7"	8.7"	16.1"	26.1"	39.1"
VELOCITY (fps)	2200	2035	1878	1729	1589	1460	1343
WIND DRIFT (in.)	0.0	1.0"	4.0"	9.3"	17.1"	27.8"	41.6"
VELOCITY (fps)	2100	1940	1787	1643	1510	1388	1280
WIND DRIFT (in.)	0.0	1.0"	4.2"	9.9"	18.3"	29.6"	44.1"
VELOCITY (fps)	2000	1844	1697	1560	1433	1319	1221
WIND DRIFT (in.)	0.0	1.1"	4.5"	10.6"	19.5"	31.6"	46.8"

BALLISTIC COEFFICIENT: .484

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3200	2798	2610	2257	2091	1507
WIND DRIFT (in.)	0.0	2.3"	5.3"	15.8"	23.6"	76.9"
VELOCITY (fps)	3100	2707	2523	2177	2014	1448
WIND DRIFT (in.)	0.0	2.4"	5.6"	16.6"	24.8"	80.7"

BALLISTIC COEFFICIENT: .484 (continued)

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3000	2616	2435	2096	1937	1390
WIND DRIFT (in.)	0.0	2.5"	5.8"	17.4"	26.0"	84.8"
VELOCITY (fps)	2900	2524	2347	2015	1860	1334
WIND DRIFT (in.)	0.0	2.6"	6.1"	18.3"	27.3"	89.2"
VELOCITY (fps)	2800	2432	2259	1934	1783	1280
WIND DRIFT (in.)	0.0	2.8"	6.4"	19.3"	28.8"	94.0"
VELOCITY (fps)	2700	2340	2170	1853	1707	1230
WIND DRIFT (in.)	0.0	2.9"	6.8"	20.3"	30.5"	99.1"
VELOCITY (fps)	2600	2248	2082	1773	1632	1183
WIND DRIFT (in.)	0.0	3.1"	7.2"	21.5"	32.3"	104.4"
VELOCITY (fps)	2500	2155	1994	1694	1558	1140
WIND DRIFT (in.)	0.0	3.3"	7.6"	22.9"	34.2"	110.0"
VELOCITY (fps)	2400	2063	1906	1616	1486	1101
WIND DRIFT (in.)	0.0	3.5"	8.1"	24.3"	36.4"	115.6"
VELOCITY (fps)	2300	1972	1819	1539	1416	1067
WIND DRIFT (in.)	0.0	3.7"	8.6"	25.9"	38.7"	121.2"
VELOCITY (fps)	2200	1880	1732	1465	1348	1036
WIND DRIFT (in.)	0.0	3.9"	9.2"	27.6"	41.1"	126.6"
VELOCITY (fps)	2100	1790	1647	1393	1285	1008
WIND DRIFT (in.)	0.0	4.2"	9.8"	29.4"	43.7"	131.6"
VELOCITY (fps)	2000	1700	1563	1324	1225	982
WIND DRIFT (in.)	0.0	4.5"	10.5"	31.3"	46.3"	136.0"
VELOCITY (fps)	1900	1611	1481	1259	1170	958
WIND DRIFT (in.)	0.0	4.8"	11.2"	33.2"	48.9"	139.7"
VELOCITY (fps)	1800	1523	1401	1198	1121	935
WIND DRIFT (in.)	0.0	5.2"	12.0"	35.1"	51.3"	142.3"

BALLISTIC COEFFICIENT: .520

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3200	3008	2825	2649	2479	2316	2159
WIND DRIFT (in.)	0.0	.5"	2.1"	4.9"	9.0"	14.6"	21.7"
VELOCITY (fps)	3100	2913	2733	2561	2394	2235	2081
WIND DRIFT (in.)	0.0	.5"	2.2"	5.2"	9.4"	15.2"	22.7"
VELOCITY (fps)	3000	2817	2641	2472	2309	2153	2002
WIND DRIFT (in.)	0.0	.6"	2.3"	5.4"	9.9"	16.0"	23.8"
VELOCITY (fps)	2900	2721	2549	2383	2224	2070	1923
WIND DRIFT (in.)	0.0	.6"	2.4"	5.7"	10.4"	16.8"	25.0"
VELOCITY (fps)	2800	2625	2456	2294	2138	1988	1845
WIND DRIFT (in.)	0.0	.6"	2.6"	5.9"	10.9"	17.7"	26.4"
VELOCITY (fps)	2700	2529	2364	2205	2052	1906	1767
WIND DRIFT (in.)	0.0	.7"	2.7"	6.3"	11.5"	18.7"	27.9"
VELOCITY (fps)	2600	2432	2271	2116	1967	1824	1689
WIND DRIFT (in.)	0.0	.7"	2.8"	6.6"	12.2"	19.8"	29.5"
VELOCITY (fps)	2500	2336	2178	2027	1882	1743	1613
WIND DRIFT (in.)	0.0	.7"	3.0"	7.0"	12.9"	21.0"	31.3"
VELOCITY (fps)	2400	2240	2086	1938	1797	1663	1538
WIND DRIFT (in.)	0.0	.8"	3.2"	7.5"	13.8"	22.3"	33.3"
VELOCITY (fps)	2300	2144	1993	1850	1713	1585	1466
WIND DRIFT (in.)	0.0	.8"	3.4"	8.0"	14.7"	23.8"	35.5"
VELOCITY (fps)	2200	2047	1901	1762	1631	1508	1395
WIND DRIFT (in.)	0.0	.9"	3.6"	8.5"	15.6"	25.3"	37.7"
VELOCITY (fps)	2100	1952	1810	1676	1550	1433	1328
WIND DRIFT (in.)	0.0	.9"	3.9"	9.1"	16.7"	27.0"	40.1"
VELOCITY (fps)	2000	1856	1719	1590	1471	1361	1264
WIND DRIFT (in.)	0.0	1.0"	4.2"	9.7"	17.8"	28.8"	42.6"

BALLISTIC COEFFICIENT: .534

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	3100	2742	2574	2255	2104	1566
WIND DRIFT (in.)	0.0	2.2"	5.0"	14.8"	22.0"	70.4"
VELOCITY (fps)	3000	2650	2485	2173	2025	1503
WIND DRIFT (in.)	0.0	2.3"	5.2"	15.5"	23.1"	74.0"
VELOCITY (fps)	2900	2558	2396	2090	1946	1441
WIND DRIFT (in.)	0.0	2.4"	5.5"	16.3"	24.2"	77.9"
VELOCITY (fps)	2800	2465	2307	2007	1867	1380
WIND DRIFT (in.)	0.0	2.5"	5.8"	17.1"	25.6"	82.1"
VELOCITY (fps)	2700	2372	2217	1925	1788	1322
WIND DRIFT (in.)	0.0	2.6"	6.1"	18.1"	27.0"	86.7"
VELOCITY (fps)	2600	2279	2128	1843	1710	1267
WIND DRIFT (in.)	0.0	2.8"	6.4"	19.2"	28.6"	91.6"
VELOCITY (fps)	2500	2187	2038	1761	1633	1216
WIND DRIFT (in.)	0.0	2.9"	6.8"	20.3"	30.3"	96.8"

Hornady
HANDBOOK

BALLISTIC COEFFICIENT: .534 (continued)

RANGE	MUZZLE	200 yds.	300 yds.	500 yds.	600 yds.	1000 yds.
VELOCITY (fps)	2400	2094	1949	1681	1557	1168
WIND DRIFT (in.)	0.0	3.1"	7.2"	21.6"	32.3"	102.1"
VELOCITY (fps)	2300	2001	1861	1601	1484	1125
WIND DRIFT (in.)	0.0	3.3"	7.7"	23.0"	34.3"	107.6"

BALLISTIC COEFFICIENT: .560

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3100	2926	2758	2597	2441	2291	2146
WIND DRIFT (in.)	0.0	.5"	2.1"	4.8"	8.7"	14.0"	20.8"
VELOCITY (fps)	3000	2830	2666	2508	2355	2208	2066
WIND DRIFT (in.)	0.0	.5"	2.1"	5.0"	9.1"	14.7"	21.8"
VELOCITY (fps)	2900	2733	2573	2418	2269	2124	1985
WIND DRIFT (in.)	0.0	.5"	2.3"	5.2"	9.5"	15.4"	22.9"
VELOCITY (fps)	2800	2637	2480	2328	2182	2041	1905
WIND DRIFT (in.)	0.0	.6"	2.4"	5.5"	10.0"	16.2"	24.1"
VELOCITY (fps)	2700	2541	2387	2239	2095	1958	1825
WIND DRIFT (in.)	0.0	.6"	2.5"	5.8"	10.6"	17.1"	25.5"
VELOCITY (fps)	2600	2444	2294	2149	2009	1874	1746
WIND DRIFT (in.)	0.0	.6"	2.6"	6.1"	11.2"	18.1"	27.0"
VELOCITY (fps)	2500	2348	2201	2059	1922	1792	1668
WIND DRIFT (in.)	0.0	.7"	2.8"	6.5"	11.9"	19.2"	28.6"
VELOCITY (fps)	2400	2251	2107	1969	1837	1710	1591
WIND DRIFT (in.)	0.0	.7"	3.0"	6.9"	12.6"	20.4"	30.5"
VELOCITY (fps)	2300	2155	2014	1880	1752	1630	1516
WIND DRIFT (in.)	0.0	.8"	3.2"	7.3"	13.5"	21.8"	32.4"
VELOCITY (fps)	2200	2058	1922	1791	1667	1551	1442
WIND DRIFT (in.)	0.0	.8"	3.4"	7.8"	14.4"	23.2"	34.5"
VELOCITY (fps)	2100	1962	1830	1704	1585	1474	1372
WIND DRIFT (in.)	0.0	.9"	3.6"	8.4"	15.4"	24.8"	36.8"
VELOCITY (fps)	2000	1866	1738	1617	1504	1399	1304
WIND DRIFT (in.)	0.0	.9"	3.9"	8.9"	16.4"	26.4"	39.1"

UPHILL/DOWNHILL TABLES INTRODUCTION

It is common knowledge in the shooting fraternity that shooting at angles greater than 10° uphill or downhill affects the trajectory of the bullet. This difference is due to different vectors of gravitational forces. In both cases the bullet will shoot high, so a shooter should aim low, but how low? The following tables have been constructed in such a manner, that correction factors apply directly to the trajectories listed in the trajectory tables.

To understand the use of the tables, we will take an excerpt from the Trajectory Tables and show the simple step by step procedure necessary to find the added amount a shooter must apply to correct for a change in angle of elevation in a practical hunting situation. Our hunter is using a Hornady 180 grain SP from a 300 Winchester Magnum at 3000 fps, and is firing at an angle of 30° with the target at a range of 200 yards. His rifle is zeroed at 300 yards.

30 CALIBER (.308" DIA.) 180 GRAIN SPIRE POINT SECTIONAL DENSITY: .271 BALLISTIC COEFFICIENT: .425

RANGE	MUZZLE	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	600 yds.
VELOCITY (fps)	3000	2777	2565	2362	2169	1985	1810
ENERGY (ft.-lbs.)	3597	3082	2629	2230	1880	1574	1310
TRAJ: 100 yds. zero	-1.5"	0.0	-3.0"	-11.3"	-25.9"	-47.8"	-78.6"
TRAJ: 200 yds. zero	-1.5"	1.5"	0.0	-6.8"	-19.8"	-40.3"	-69.6"
TRAJ: 300 yds. zero	-1.5"	3.8"	4.5"	0.0	-10.8"	-29.0"	-56.0"
TRAJ: 400 yds. zero	-1.5"	6.5"	9.9"	8.1"	0.0	-15.5"	-39.8"
TRAJ: 500 yds. zero	-1.5"	9.6"	16.1"	17.4"	12.4"	0.0	-21.2"
TRAJ: 600 yds. zero	-1.5"	13.1"	23.2"	28.0"	26.5"	17.7"	0.0

Step 1) Always begin by finding the 300 yard trajectory for the 500 yard zero, regardless of the range for which you are zeroed. (If the range is in 50 yard increments, use the 150 yard trajectory with the 250 yard zero.) In this case the trajectory is 17.4".

Step 2) Find that number (17.4" or the closest number to it) in the second column of the Uphill/Downhill Tables (make sure it is in the section with the correct angle for your situation, 30° in this case).

Step 3) Now read across to the appropriate column indicating the range for the desired correction. For this situation 200 yards is the desired range and 1.0" is the amount of correction.

Step 4) Now refer back to the trajectory for which you are zeroed. Our shooter is zeroed at 300 yards and has a 200 yard trajectory of +4.5".

Step 5) To this figure (4.5") add the correction (1.0"), which yields 5.5". This new figure is the new trajectory at 200 yards with a 300 yard zero while shooting at an angle of 30°. Thus, if zeroed at 300 yards, this shooter should hold 5.5" low to hit dead on.

As is readily noticeable, the amount of correction necessary for the hunter was a rather small amount, but as the angle increases, so does the amount of correction. The really large correction factors occur with bullets that are traveling at relatively slow velocities over long ranges.

ANGLE OF FIRE: 15°

150/300 yd. Trajectory for 250/500 yd. zero range	Correction 50/100 yd.	Correction 100/200 yd.	Correction 150/300 yd.	Correction 200/400 yd.	Correction 250/500	Correction 300/600 yd.
5"	0	.1"	.2"	.4"	.6"	1.0"
10"	0	.1"	.4"	.7"	1.2"	1.9"
15"	0	.2"	.5"	1.1"	1.8"	2.7"
20"	.1"	.3"	.7"	1.4"	2.4"	3.6"
25"	.1"	.3"	.9"	1.8"	2.9"	4.5"
30"	.1"	.4"	1.1"	2.1"	3.5"	5.4"
40"	.1"	.6"	1.4"	2.8"	4.7"	7.2"
50"	.1"	.7"	1.8"	3.5"	5.8"	8.9"
70"	.2"	1.0"	2.5"	4.8"	8.1"	12.4"

ANGLE OF FIRE: 30°

150/300 yd. Trajectory for 250/500 yd. zero range	Correction 50/100 yd.	Correction 100/200 yd.	Correction 150/300 yd.	Correction 200/400 yd.	Correction 250/500	Correction 300/600 yd.
2"	0	.1"	.4"	.7"	1.2"	1.8"
4"	0	.2"	.6"	1.2"	2.1"	3.2"
6"	.1"	.4"	.9"	1.8"	3.0"	4.6"
8"	.1"	.5"	1.2"	2.3"	3.9"	6.0"
10"	.1"	.6"	1.5"	2.9"	4.8"	7.3"
12"	.1"	.7"	1.7"	3.4"	5.7"	8.7"
14"	.2"	.8"	2.0"	3.9"	6.6"	10.1"
16"	.2"	.9"	2.3"	4.5"	7.5"	11.5"
18"	.2"	1.0"	2.6"	5.0"	8.4"	12.9"
20"	.2"	1.1"	2.8"	5.5"	9.3"	14.3"
25"	.3"	1.4"	3.5"	6.9"	11.6"	17.7"
30"	.3"	1.6"	4.2"	8.2"	13.9"	21.2"
35"	.4"	1.9"	4.9"	9.6"	16.1"	24.7"
40"	.4"	2.2"	5.6"	10.9"	18.4"	28.1"
50"	.5"	2.7"	7.0"	13.6"	22.9"	35.0"
60"	.6"	3.2"	8.3"	16.3"	27.4"	42.0"
70"	.8"	3.8"	9.7"	19.0"	32.0"	48.9"

ANGLE OF FIRE: 45°

150/300 yd. Trajectory for 250/500 yd. zero range	Correction 50/100 yd.	Correction 100/200 yd.	Correction 150/300 yd.	Correction 200/400 yd.	Correction 250/500	Correction 300/600 yd.
2"	.1"	.3"	.8"	1.5"	2.6"	3.9"
3"	.1"	.4"	1.1"	2.1"	3.6"	5.5"
4"	.1"	.5"	1.4"	2.7"	4.6"	7.0"
5"	.1"	.7"	1.7"	3.3"	5.5"	8.5"
6"	.2"	.8"	2.0"	3.9"	6.5"	10.0"
7"	.2"	.9"	2.3"	4.5"	7.5"	11.5"
8"	.2"	1.0"	2.6"	5.1"	8.5"	13.0"
9"	.2"	1.1"	2.9"	5.7"	9.5"	14.5"
10"	.2"	1.2"	3.2"	6.2"	10.5"	16.1"
11"	.3"	1.4"	3.5"	6.8"	11.5"	17.6"
12"	.3"	1.5"	3.8"	7.4"	12.5"	19.1"
13"	.3"	1.6"	4.1"	8.0"	13.5"	20.6"
14"	.3"	1.7"	4.4"	8.6"	14.5"	22.1"
15"	.4"	1.8"	4.7"	9.2"	15.4"	23.6"
16"	.4"	1.9"	5.0"	9.8"	16.4"	25.1"
17"	.4"	2.1"	5.3"	10.4"	17.4"	26.6"
18"	.4"	2.2"	5.6"	10.9"	18.4"	28.2"
19"	.5"	2.3"	5.9"	11.5"	19.4"	29.7"
20"	.5"	2.4"	6.2"	12.1"	20.4"	31.2"
22"	.5"	2.6"	6.8"	13.3"	22.4"	34.2"
24"	.6"	2.9"	7.4"	14.5"	24.4"	37.2"
26"	.6"	3.1"	8.0"	15.7"	26.3"	40.3"
28"	.7"	3.3"	8.6"	16.8"	28.3"	43.3"
30"	.7"	3.6"	9.2"	18.0"	30.3"	46.3"
35"	.8"	4.2"	10.7"	21.0"	35.2"	53.9"
40"	.9"	4.8"	12.2"	23.9"	40.2"	61.5"
45"	1.1"	5.3"	13.7"	26.8"	45.1"	69.0"
50"	1.2"	5.9"	15.2"	29.8"	50.1"	76.6"
60"	1.4"	7.1"	18.2"	35.7"	60.0"	91.8"
70"	1.6"	8.3"	21.3"	41.6"	69.9"	106.9"

*Charts and
Conversion
Tables*

BOXER PRIMER CHART

Manufacturers	Pistol Primers				Rifle Primers			
	Small Pistol	Small Pistol Magnum	Large Pistol	Large Pistol Magnum	Small Rifle	Small Rifle Magnum	Large Rifle	Large Rifle Magnum
Federal	100	200	150	155	200 205m*	205	210 210m*	215
Remington	1½	5½	2½		6½	7½	9½	9½m
Winchester	WSP	WSPM	WLP		WSR		WLR	WLRM
Omark/CCI	500	550	300	350	400 BR4*	450	200 BR2*	250
RWS/Sinioxid	4031	4047	5337		4033		5341	5333

*These primers are designed and manufactured for bench rest/match shooters and are useful in similar applications as the standard primer.

A CHART OF POWDER BURNING RATES IN METALLIC CARTRIDGES, FROM FASTEST TO SLOWEST

This chart is approximate as powder burning rates change from production lot to production lot and from one cartridge to another. For example, a certain powder produced in 1993 may have a slightly different burning rate from one produced in 1990. Therefore, its position on the chart will be different. Also, a powder may burn at one rate in a .308 but at a different rate in a .243 and at a third rate in a .358 even though all three cartridges have the same approximate volume. The differences between one powder to another may be different. For example, the difference between numbers 23 and 24 may be slight and the differences between numbers 24 and 25 may be tremendous.

Therefore, this is not a powder substitution chart. Always refer to the specific cartridge loading data.

Fastest

- | | | | |
|---------------|---------------|--------------------|--------------------|
| 1. Bullseye | 21. 800 X | 41. WIN 680 | 60. Brigadier 4065 |
| 2. Royal Scot | 22. Solo 1500 | 42. IMR 4198 | 61. IMR 4320 |
| 3. AA N100 | 23. SR 7625 | 43. H 4198 | 62. H 380 |
| 4. AA No. 2 | 24. 473AA | 44. RL-7 | 63. WIN 760 |
| 5. WW 231 | 25. WSF | 45. Brigadier 4197 | 64. H 414 |
| 6. HP 38 | 26. 540 | 46. H 322 | 65. Brigadier 4351 |
| 7. Pearl Scot | 27. HS-6 | 47. RE 12 | 66. H 4350 |
| 8. Red Dot | 28. Herco | 48. IMR 3031 | 67. IMR 4350 |
| 9. 700X | 29. HS-7 | 49. AA 2230 | 68. H 450 |
| 10. WSL | 30. 571 | 50. H 335 | 69. IMR 4831 |
| 11. Solo 1000 | 31. Blue Dot | 51. RE 15 | 70. AA 3100 |
| 12. 452 AA | 32. AA No. 7 | 52. Brigadier 3032 | 71. RL-19 |
| 13. WST | 33. 2400 | 53. AA 2460 | 72. RL-22 |
| 14. TRAP 100 | 34. AA No. 9 | 54. WIN 748 | 73. H 4831 |
| 15. Green Dot | 35. WIN 296 | 55. BLC-2 | 74. IMR 7828 |
| 16. Solo 1250 | 36. H 110 | 56. IMR 4895 | 75. H 1000 |
| 17. PB | 37. 4759 | 57. H 4895 | 76. H 870 |
| 18. AA No. 5 | 38. IMR 4227 | 58. AA 2520 | 77. H 5010 |
| 19. Unique | 39. H 4227 | 59. IMR 4064 | 78. AA 8700 |
| 20. 4756 | 40. AA 1680 | | |

SHELL HOLDER CHART
Rifle Cartridges

Cartridge	Hornady	RCBS	Lyman*	C-H	Redding
17 Mach IV	16	10	26	15	10
17/222	16	10	26	15	10
17/223	16	10	26	15	10
17 Remington	16	10	26	15	10
22 Hornet	3	12	4	Hornet	14
218 Bee	7	1	10	3	3
222 Remington	16	10	26	15	10
223 Remington	16	10	26	15	10
22 PPC	6	6	1	12	12
222 Remington Magnum	16	10	26	15	10
219 Donaldson Wasp	2	2	6	2	2
219 Zipper	2	2	6	2	2
224 Weatherby Magnum	17	27	3	....	....
225 Winchester	4	11	5	4	4
22-250 Remington	1	3	2	1	1
220 Swift	4	11	5	4	4
22 Savage Hi Power (5.6 x 52R)	2	2	6	2	2
5.6 x 50mm Magnum	16	10	26	15	10
5.6 x 57mm	1	....	....	....	....
6 x 47mm	16	10	26	15	10
243 Winchester	1	3	2	1	1
6mm/244 Remington	1	3	2	1	1
6mm/284	1	3	2	1	1
240 Weatherby Magnum	1	3	2	1	1
25-20	7	1	10	3	3
256 Winchester Magnum	6	6	1	12	12
25-35	2	2	6	2	2
250-3000 Savage	1	3	2	1	1
257 Roberts	1	11	2 or 8	4	1
257 Roberts Improved	1	11	2 or 8	4	1
25-06	1	3	2	1	1
257 Weatherby Magnum	5	4	13	6	6
6.5mm Japanese	34	15	5	4	4
6.5mm Carcano	21	9	28	14	1
6.5 x 54mm (Mannlicher Schoenauer)	20	9	28	14	24
6.5 x 55mm Swedish Mauser	19	2	27	2	1
6.5 x 57mm	1	11	2 or 8	4	1
6.5 Remington Magnum	5	4	13	6	6
264 Winchester Magnum	5	4	13	6	6
270 Winchester	1	3	2	1	1
270 Weatherby Magnum	5	4	13	6	6
7 x 30 Waters	2	2	6	2	2
708 Remington	1	3	2	1	1
7mm Mauser (7 x 57)	1	11	2	1	1
7 x 64mm	1	3	2	1	1
7 x 65mm R	13	26	....	....	....
280 Remington/ 7mm Express Remington	1	3	2	1	1
284 Winchester	1	3	2	1	1
7mm x 61mm Sharpe & Hart	35	....	13	7	6
7mm Remington Magnum	5	4	13	6	6
7mm Weatherby Magnum	5	4	13	6	6
7.35mm Carcano	21	....	28	14	1
7.5 Schmidt-Rubin (7.5 Swiss)	30	2	....	2	....
30 M1 Carbine	22	17	19	M1	22

Cartridge	Hornady	RCBS	Lyman*	C-H	Redding
30-30 Winchester	2	2	6	2	2
300 Savage	1	3	2	1	1
307 Winchester	33	2	6	2	2
308 Winchester	1	3	2	1	1
7.62 x 39mm	6	6	1	12	12
7.62 x 54mm	23	13	17	....	15
30-40 Krag	11	7	7	8B	8
30-06	1	3	2	1	1
30-06 Improved	1	3	2	1	1
300 H & H Magnum	5	4	13	6	6
308 Norma Magnum	5	4	13	6	6
300 Winchester Magnum	5	4	13	6	6
300 Weatherby Magnum	5	4	13	6	6
7.65 Belgian Mauser	24	3	2	1	1
303 British	11	7	7	8B	8
7.7 Japanese	1	3	2	2	1
32 Winchester Special	2	2	6	2	2
8mm Mauser (8 x 57s)	1	3	2	1	1
8 x 68mm S	30	....	....	....	....
8mm/06	1	3	2	1	1
8mm Remington Magnum	5	4	13	6	6
8.15 x 46mm	2	....	....	2	....
33 Winchester	14	14	17	47	18
338 Winchester Magnum	5	4	13	6	6
340 Weatherby Magnum	5	4	13	6	6
348 Winchester	25	5	18	348	20
35 Remington	26	9	8 or 2	14	1
356 Winchester	33	2	6	2	2
358 Winchester	1	3	2	1	1
350 Remington Magnum	5	4	13	6	6
35 Whelen	1	3	....	1	....
358 Norma Magnum	5	4	13	6	6
9.3 x 74mm R	13	....	....	6	....
375 Winchester	2	2	6	2	2
375 H & H Magnum	5	4	13	6	6
378 Weatherby Magnum	14	....	17	....	....
444 Marlin	27	28	14B	8B	19
45-70 Government	14	14	17	47	18
458 Winchester Magnum	5	4	13	6	6
460 Weatherby Magnum	14	....	17	....	....

SHELL HOLDER CHART
Pistol Cartridges

Cartridge	Hornady	RCBS	Lyman*	C-H	Redding
22 Jet	6	6	1	12	12
221 Fireball	16	10	26	15	10
22 BR	1	3	2	1	1
6mm BR	1	3	2	1	1
25 ACP	37	29	....	....	....
256 Winchester Magnum	6	6	1	12	12
7 x 45 Ingram	16	10	26	15	10
7mm TCU	16	10	26	15	10
7mm BR	1	3	2	1	1
30 Luger	8	16	12	Lug.	13
30 M1 Carbine	22	17	19	30 mi	22
30 Merrill	4	11	5	4	4
30 Herrett	2	2	6	2	2
32 ACP	22	....	....	....	22
32 S&W Long/Short	36	23	9	....	....
32-20	7	1	....	....	3
380 Auto	16	10	26	15	10
9mm Luger	8	16	12	Lug.	13
38 ACP / 38 Super	8	1	12	3	5
38 Special	6	6	1	12	12
357 Magnum	6	6	1	12	12
357 Maximum	6	6	1	12	12
357 Bain & Davis	30	18	7	8	19
357 Herrett	2	2	6	2	2
38-40 Winchester	9	26/28	14B	....	9
10mm Auto / 40 S&W	10	15	15	....	5
44-40 Winchester	9	26/28	14B	....	9
44 Special	30	18	7	8	19
44 Remington Magnum	30	18	7	8	19
44 Auto Magnum	1	3	2	1	1
45 ACP	1	3	2	1	1
45 Winchester Magnum	1	3	2	1	1
45 Auto Rim	31	8	14A	....	17
45 Colt	32	20	11	45 LC	23

*Some SAKO and Norma cases may require an RCBS No. 26 shell holder.

HORNADY SHELL HOLDERS AND CALIBERS THAT FIT THEM

SHELL HOLDER NO. 1

#390541
5.6 x 57
22/250
240 Wby.
243 Win.
244/6mm
6mm Int.
6mm/284
250 Sav.
25/06
257 Robts.
25/284
6.5/06
6.5 x 57
270 Win.
7 x 57 (7mm Mau)
7mm/08
7mm Rem. BR
7 x 64
7mm Exp/280
284 Win.
300Sav.
308 Win.
30/06
7.7 Jap
8mm Mau.
8mm/06
8 x 60 S
35 Whelen
358 Win.
9.3 x 57
9.3 x 62
44 Auto Mag.
45 ACP/WM

SHELL HOLDER NO. 2

#390542
219 Zipper
5.6 x 52 R
22 Sav. HP
25/35 Win.
30/30 Win.
30 Herrett
32 Win. Spl.
8.15 x 46 R
357 Herrett
375 Win.
7 x 30 Waters
32/40

SHELL HOLDER NO. 3

#390543
22 Hornet
22-K Hornet

SHELL HOLDER NO. 4

#390544
220 Swift
225 Win.
7mm Merrill
30 Merrill

SHELL HOLDER NO. 5

#390545
257 Wby.
6.5 Rem. Mag.
264 Win. Mag.
270 Wby.
7mm Rem. Mag.
7mm Wby.
300 H & H
300 Win. Mag.
300 Wby.
308 Norma Mag.
8mm Rem. Mag.

338 Win. Mag.
340 Wby.
350 Rem. Mag.
358 Norma Mag.
375 H & H
458 Win.
416 Rem. Mag.

SHELL HOLDER NO. 6

#390546
22 RCFM-Jet
22 PPC
6mm PPC
256 Win.
38-357-357 Max.

SHELL HOLDER NO. 7

#390547
218 Bee
25/20 Win.
32/20 Win.

SHELL HOLDER NO. 8

#390548
30 Luger
38 Super Auto
9mm Luger

SHELL HOLDER NO. 9

#390549
38/40 Win.
44/40 Win.

SHELL HOLDER NO. 10

#390550
10mm Auto
40 S & W

SHELL HOLDER NO. 11

#390551
30/40 Krag.
303 British

SHELL HOLDER NO. 12

#390552
25 Rem.

SHELL HOLDER NO. 13

#390553
7. x 65 R
9.3 x 74 R

SHELL HOLDER NO. 14

#390554
33 Win.
378 Wby.
460 Wby.

45/70 Gov't.

416 Wby.

SHELL HOLDER NO. 16

#390556
17 Rem.

17/222

17/223

221 Rem.

222 Rem.

222 Rem. Mag.

5.6 x 50 Mag.

223 Rem.

6mm/223

6mm TCU

6 x 47 Rem.

6.5mm TCU

7mm TCU

7mm/223 Ingram

7 x 47 Helm

380 Auto

SHELL HOLDER NO. 17

#390557
224 Wby.

SHELL HOLDER NO. 19

#390559
6.5 x 55

SHELL HOLDER NO. 20

#390560
6.5 Mann

SHELL HOLDER NO. 21

#390561
6.5 Carc.

7.35 Car.

SHELL HOLDER NO. 22

#390562
30 M1 Carb.

32 ACP

SHELL HOLDER NO. 23

#390563
7.62 Russ.

SHELL HOLDER NO. 24

#390564
7.65 Belg.

SHELL HOLDER NO. 25

#390565
348 Win.

10.3 x 60

SHELL HOLDER NO. 26

#390566
35 Rem.

SHELL HOLDER NO. 27

#390567
375 JDJ

444 Marlin

SHELL HOLDER NO. 28

#390568
38 S & W

SHELL HOLDER NO. 29

#390569
41 Mag.

SHELL HOLDER NO. 30

#390570
6.5 x 68

7.5 Swiss

8 x 68 S

357/44 B & D

44 Spl./44 Mag.

SHELL HOLDER NO. 31

#390571
45 Auto Rim

SHELL HOLDER NO. 32

#390572
45 Long Colt

SHELL HOLDER NO. 33

#390573
303 Sav.

307 Win.

356 Win.

SHELL HOLDER NO. 34

#390574
6.5 Jap.

SHELL HOLDER NO. 35

#390575
7 x 61 S & H

SHELL HOLDER NO. 36

#390576
32 S & W Long/

Short/H & R Mag.

SHELL HOLDER NO. 37

#390577
25 ACP

SHELL HOLDER NO. 38

#390578
416 Rigby

HORNADY NEW DIMENSION Die Reference Chart

2-DIE SETS (Rifle)

CARTRIDGE [Bullet Diameter]	Die Group	Primer Punch Size	Shell Holder	Trimmer Pilot	Bullet Puller Collet
17 Rem. [.172]	III	Small	16	Order Pilot & Cutter as one unit for all 17 cal.	1
17/222 [.172]	IV*	Small	16		1
17/223 [.172]	IV*	Small	16		1
218 Bee [.224]	III	Small	7	1	2
219 Zipper [.224]	IV	Large	2	1	2
221 Rem. [.224]	III	Small	16	1	2
222 Rem. [.224]	I*	Small	16	1	2
222 Rem. Mag. [.224]	III	Small	16	1	2
22 Hornet [.224]	I	Small	3	1	2
22 K-Hornet [.224]	IV	Small	3	1	2
22 RCFM-Jet [.224]	IV	Small	6	1	2
22 PPC [.224]	IV	Small	6	1	2
5.6 x 50 Mag. [.224]	IV	Small	16	1	2
5.6 x 52R [.227]	IV	Large	2	1	2
5.6 x 57 [.224]	IV	Large	1	1	2
223 Rem. [.224]	I*	Small	16	1	2
22/250 [.224]	I*	Large	1	1	2
220 Swift [.224]	I*	Large	4	1	2
22 Sav. HP [.227]	IV	Large	2	1	2
224 Wby. [.224]	IV*	Large	17	1	2
225 Win. [.224]	III	Large	4	1	2
240 Wby. [.243]	III	Large	1	3	3
243 Win. [.243]	I*	Large	1	3	3
244/6MM [.243]	I*	Large	1	3	3
6MM Int. [.243]	IV	Large	1	3	3
6MM/223 [.243]	III	Small	16	3	3
6MM/PPC [.243]	I	Small	6	3	3
6MM TCU [.243]	III	Small	16	3	3
6MM/284 [.243]	IV	Large	1	3	3
6 x 47 Rem. [.243]	IV	Small	16	3	3
250 Sav. [.257]	III	Large	1	4	4
25/06 [.257]	I*	Large	1	4	4
257 Rbts. [.257]	I*	Large	1	4	4
25/20 Win. [.257]	IV	Small	7	4	4
25/35 Win. [.257]	III	Large	2	4	4
256 Win. [.257]	IV	Small	6	4	4
257 Wby. [.257]	III	Large	5	4	4
25 Rem. [.257]	IV	Large	12	4	4
25/284 [.257]	IV*	Large	1	4	4
6.5 x 55 [.264]	I*	Large	19	5	4
6.5/06 [.264]	IV*	Large	1	5	4
6.5MM TCU	III	Small	16	5	4
6.5 Rem. Mag. [.264]	IV*	Large	5	5	4
6.5 Mann. [.264]	IV	Large	20	5	4
6.5 Carc. [.264]	IV	Large	21	5	4
6.5 Jap. [.264]	IV	Large	34	5	4
6.5 x 57 [.264]	IV	Large	1	5	4
6.5 x 68 [.264]	IV	Large	30	5	4
264 Win. Mag. [.264]	I	Large	5	5	4
270 Win. [.277]	I*	Large	1	6	5
270 Wby. [.277]	III	Large	5	6	5
7-30 Waters [.284]	III	Large	2	7	6
7 x 57 (7MM Mau.) [.284]	I*	Large	1	7	6
7MM/08 [.284]	I*	Large	1	7	6
7MM Rem. Mag. [.284]	I*	Large	5	7	6
7MM Rem. BR [.284]	III	Large	1	7	6
7MM TCU [.284]	I	Large	16	7	6
7MM Merrill [.284]	IV	Large	4	7	6
7 x 65R [.284]	IV	Large	13	7	6
7MM Wby. [.284]	I	Large	5	7	6
7 x 64 [.284]	IV	Large	1	7	6
7MM/223 Ingram [.284]	IV	Small	16	7	6
7 x 47 Helm [.284]	IV	Small	16	7	6

*Neck-size die available [Bullet Diameter]

2-DIE SETS (Rifle) *continued*

CARTRIDGE [Bullet Diameter]	Die Group	Primer Punch Size	Shell Holder	Trimmer Pilot	Bullet Puller Collet
7 x 61 S & H [.284]	IV*	Large	35	7	6
7MM Exp./280 [.284]	I*	Large	1	7	6
284 Win. [.284]	III*	Large	1	7	6
7.35 Carc. [.300]	IV*	Large	21	8	7
30/30 Win. [.308]	I*	Large	2	9	7
300 Sav. [.308]	I	Large	1	9	7
30 Luger [.308]	III	Large	8	9	7
30 Merrill [.308]	IV	Large	4	9	7
30 Herrett [.308]	III	Large	2	9	7
303 Sav. [.308]	IV	Large	33	9	7
308 Win. [.308]	I	Large	1	9	7
30/40 Krag [.308]	III	Large	11	9	7
30/06 [.308]	I	Large	1	9	7
300 H & H [.308]	III	Large	5	9	7
300 Win. Mg. [.308]	I	Large	5	9	7
300 Wby. [.308]	I	Large	5	9	7
308 Norma Mag. [.308]	IV	Large	5	9	7
7.62 Russ. [.308]	IV	Large	23	9	7
7.5 Swiss [.308]	III	Large	30	9	7
32/20 Win. [.308]	III	Small	7	10	7
7.62 x 39 [.308]	I	Large	6	10	7
7.7 Jap. [.312]	III	Large	1	10	7
303 Brit. [.312]	II	Large	11	10	7
7.65 Belg. [.312]	III	Large	24	10	7
32 Win. Spl. [.321]	III	Large	2	11	8
32/40 Win. [.321]	IV	Large	2	11	8
8MM Mau. [.323]	I*	Large	1	11	8
8MM/06 [.323]	IV*	Large	1	11	8
8MM Rem. Mag. [.323]	III	Large	5	11	8
8 x 60S [.323]	IV	Large	1	11	8
8 x 68S [.323]	IV	Large	30	11	8
8.15 x 46R [.337]	IV	Large	2	11	8
338 Win. Mag. [.338]	I	Large	5	13	8
33 Win. [.338]	IV	Large	14	13	8
340 Wby. [.338]	IV	Large	5	13	8
348 Win. [.348]	IV	Large	25	14	9
35 Rem. [.358]	I*	Large	26	15	9
35 Whelen [.358]	I	Large	1	15	9
357/44 B & D [.358]	IV	Large	30	15	9
350 Rem. Mag. [.358]	IV*	Large	5	15	9
357 Herrett [.357]	III	Large	2	15	9
358 Win. [.358]	III	Large	1	15	9
358 N. Mag. [.358]	IV	Large	5	15	9
375 H & H [.375]	III	Large	5	16	10
378 Wby. [.375]	IV	Large	14	16	10
9.3 x 74R [.366]	IV	Large	13	16	10
9.3 x 57 [.366]	IV	Large	1	16	10
9.3 x 62 [.366]	IV	Large	1	16	10
10.3 x 60 [.415]	IV	Small	25	17	12
416 Rem. Mag. [.416]	IV	Large	5	17	12
416 Rigby [.416]	IV	Large	38	17	12
416 Wby. [.416]	IV	Large	14	17	12
460 Wby. [.458]	IV	Large	14	19	13

3-DIE SETS (Rifle)

CARTRIDGE [Bullet Diameter]	Die Group	Primer Punch Size	Shell Holder	Trimmer Pilot	Bullet Puller Collet
25 ACP [.251]	II	Small	37	4	4
30 M1 Carb. [.308]	I	Small	22	9	7
32 ACP [.311]	II	Small	22	10	7
32 S&W Long/Short					
H&R Mag. [.312]	II	Small	36	7	9
9MM Luger [.355]	II	Small	8	15	9
380 Auto [.355]	II	Small	16	15	9
38 Super Auto [.357]	II	Small	8	15	9
38 S&W [.357]	IV	Small	28	15	9

3-DIE SETS (Rifle) continued

CARTRIDGE [Bullet Diameter]	Die Group	Primer Punch Size	Shell Holder	Trimmer Pilot	Bullet Puller Collet
38-357-357 Max. [.357]	II	Small	6	15	9
375 Win. [.375]	I	Large	2	16	10
10mm Auto - 40 S&W [.400]	II	Large	10	16	11
38/40 Win. [.400]	IV	Large	9	16	11
41 Mag. [.410]	II	Small	29	17	11
44 Spl./44 Mag. [.430]	II	Large	30	18	12
44 Auto Mag. [.430]	IV	Large	1	18	12
44/40 Win. [.429]	IV	Large	9	18	12
444 Marlin [.430]	II	Large	27	18	12
45 Auto Rim [.451]	II	Large	31	19	13
45 ACP/AR/WM [.451]	II	Large	1	19	13
45 Long Colt [.452]	II	Large	32	19	13
45/70 Govt. [.458]	I	Large	14	19	13
458 Win. [.458]	I	Large	5	19	13

*Neck-size die available [Bullet Diameter]

**LOADS PER POUND
OF POWDER**

GRAINS OF POWDER	NUMBER OF LOADS
5 Grains	1400
10 Grains	700
15 Grains	466
20 Grains	350
25 Grains	280
30 Grains	233
35 Grains	200
40 Grains	175
45 Grains	155
50 Grains	140
55 Grains	127
60 Grains	116
65 Grains	107
70 Grains	100
75 Grains	93
80 Grains	87
85 Grains	82
90 Grains	77
95 Grains	73
100 Grains	70

CONVERSION TABLES

**WEIGHT AND LENGTH
EQUIVALENTS**

7000 Grains	=	1 Pound
437.5 Grains	=	1 Ounce
15.43 Grains	=	1 Gram
453.6 Grams	=	1 Pound
25.4 Millimeters	=	1 Inch

CONVERSION FACTORS

Pounds x 7000	=	Grains
Ounces x 437.5	=	Grains
Grains x .00229	=	Ounces
Grams x 15.4324	=	Grains
Grains x .0648	=	Grams
Inches x 25.4	=	Millimeters
Millimeters x .03937	=	Inches

PISTOL POWDER MEASURE BUSHING CHART

Order No.	Bushing Size No.	DuPont 700-X	DuPont 4227	DuPont SR 7625	DuPont SR 4756	DuPont PB	Hercules Bullseye	Hercules 2400	Hercules Red Dot	Hercules Unique
290006	1	2.0	—	—	—	—	2.6	—	1.7	—
290007	2	2.1	—	—	—	—	2.8	—	1.8	—
290008	3	2.3	—	—	—	—	3.0	—	2.1	—
290009	4	2.7	—	—	—	—	3.4	—	2.4	3.4
290010	5	2.9	—	3.1	—	2.9	3.7	—	2.6	3.6
290011	6	3.0	—	3.5	—	3.1	3.9	—	2.7	3.9
290012	7	3.2	—	3.6	—	3.2	4.1	—	2.8	4.3
290013	8	3.5	—	4.1	—	3.3	4.4	—	3.2	4.5
290014	9	3.7	—	4.2	3.7	3.4	4.5	—	3.3	4.6
290015	10	4.0	7.3	5.0	4.5	4.0	5.1	—	3.6	5.3
290016	11	4.3	7.5	5.1	4.6	4.6	5.2	7.3	3.7	5.4
290017	12	4.6	8.0	5.5	4.8	4.8	—	7.9	3.9	5.8
290018	13	5.0	8.8	6.0	5.6	5.3	—	8.7	4.4	6.5
290019	14	5.5	9.4	6.4	6.0	5.8	—	9.3	4.7	6.8
290020	15	5.8	9.9	6.8	6.4	6.0	—	9.8	4.9	7.2
290021	16	6.1	10.3	7.1	6.7	6.4	—	10.3	5.2	7.5
290022	17	6.5	11.5	7.9	7.6	7.0	—	11.4	5.8	8.4
290023	18	—	12.1	8.1	7.8	7.3	—	12.0	6.1	8.7
290024	19	—	12.3	8.6	8.3	7.6	—	12.7	6.3	9.2
290025	20	—	13.4	9.1	8.8	8.0	—	13.4	6.7	9.7
290026	21	—	14.7	9.9	9.7	8.9	—	14.7	7.4	10.6
290027	22	—	15.7	10.4	10.2	9.4	—	15.5	7.7	11.4

Order No.	Bushing Size No.	Hercules Herco	Hercules Blue Dot	Hodgdon HP38	Hodgdon Trap 100	Hodgdon HS5	Hodgdon HS6	Hodgdon HS7	Hodgdon H110	Hodgdon H4227
290006	1	—	—	3.0	2.3	4.1	3.9	4.0	4.2	3.6
290007	2	—	—	3.2	2.5	4.5	4.2	4.4	4.5	3.9
290008	3	—	—	3.6	2.8	5.0	4.6	4.8	5.0	4.3
290009	4	—	—	4.0	3.1	5.6	5.2	5.5	5.6	4.9
290010	5	—	—	4.3	3.4	6.1	5.8	6.0	6.1	5.3
290011	6	—	—	4.5	3.6	6.4	6.0	6.2	6.4	5.5
290012	7	3.6	—	4.8	3.9	6.9	6.3	6.7	6.9	6.0
290013	8	3.8	—	5.0	4.0	7.4	7.0	7.3	7.4	6.5
290014	9	3.9	—	5.2	4.2	7.7	7.4	7.6	7.7	6.7
290015	10	4.3	—	6.1	4.9	8.5	7.9	8.4	8.6	7.5
290016	11	4.5	—	6.4	5.1	8.9	8.2	8.8	9.0	7.7
290017	12	4.8	—	6.8	5.3	9.4	9.0	9.3	9.5	8.2
290018	13	5.3	—	7.6	5.8	10.3	9.7	10.1	10.4	9.0
290019	14	5.7	—	8.1	6.4	11.1	10.5	11.0	11.1	9.6
290020	15	5.9	—	8.5	6.7	11.8	11.1	11.6	11.8	10.2
290021	16	6.2	8.9	8.9	7.0	12.4	11.5	12.3	12.4	10.7
290022	17	6.8	9.7	9.8	7.7	13.7	12.8	13.5	13.7	11.8
290023	18	7.3	10.1	10.2	8.0	14.1	13.3	13.9	14.0	12.2
290024	19	7.7	10.8	10.6	8.4	15.0	13.9	14.6	14.9	12.9
290025	20	8.1	11.4	11.4	8.8	15.7	14.9	15.6	15.6	13.6
290026	21	8.7	12.5	12.6	9.7	17.6	16.2	17.1	17.5	15.1
290027	22	9.5	13.2	13.2	10.4	18.3	17.0	17.7	17.9	15.9

continued

PISTOL POWDER MEASURE BUSHING CHART

Order No.	Bushing Size No.	Norma R1	Norma R123	Winchester 231	Winchester 296	Winchester 680	Accurate Arms No. 2	Accurate Arms No. 5	Accurate Arms No. 7	Accurate Arms No. 9
290006	1	1.9	—	3.0	—	—	3.3	4.2	4.3	4.3
290007	2	2.0	—	3.3	—	—	3.5	4.6	4.7	4.6
290008	3	2.3	—	3.6	—	—	3.8	5.0	5.1	5.0
290009	4	2.6	—	4.1	—	—	4.3	5.6	5.8	5.6
290010	5	2.9	—	4.5	—	—	4.9	6.0	6.3	6.1
290011	6	3.1	—	4.6	—	—	5.0	6.3	6.4	6.4
290012	7	3.2	—	4.8	—	—	5.2	6.8	6.9	6.9
290013	8	3.7	—	5.3	—	—	5.8	7.4	7.5	7.5
290014	9	3.8	—	5.5	—	—	5.9	7.6	7.7	7.6
290015	10	4.3	—	6.3	—	—	6.5	8.6	8.7	8.5
290016	11	4.5	—	6.4	—	—	6.9	8.9	9.1	8.9
290017	12	4.8	—	6.9	—	—	7.4	9.4	9.7	9.6
290018	13	5.3	—	7.6	10.3	10.5	8.2	10.4	10.7	10.6
290019	14	5.7	—	8.1	11.0	11.2	8.7	11.0	11.3	11.2
290020	15	6.0	—	8.5	11.6	11.9	9.0	11.6	12.0	11.9
290021	16	—	—	8.9	12.2	12.6	9.6	12.3	12.7	12.5
290022	17	—	—	9.9	13.6	13.8	10.5	13.6	14.0	13.9
290023	18	—	10.1	—	14.0	14.3	11.1	14.1	14.3	14.2
290024	19	—	10.8	—	14.7	15.1	11.5	14.5	15.1	14.7
290025	20	—	11.5	—	15.6	16.0	12.0	15.5	15.7	15.8
290026	21	—	12.5	—	17.1	17.5	13.5	17.0	17.5	17.2
290027	22	—	13.2	—	17.9	18.3	14.4	17.6	18.3	18.0

TRIMMER PILOTS

Order No.	Pilot No.	Bullet Dia.
390943	1 - 22	.224
390944	2	.228
390945	3 - 6MM	.243
390946	4 - 25 cal.	.257
390947	5 - 6.5MM	.264
390948	6 - 270 cal.	.277
390949	7 - 7MM	.284
390950	8	.300
390951	9 - 30 cal.	.308
390952	10 - 303 cal.	.312
390953	11 - 8MM	.323
390954	12	.333
390955	13	.338
390956	14	.348
390957	15 - 38 cal.	.358
390958	16	.375
390959	17 - 41 cal.	.410
390960	18 - 44 cal.	.429
390961	19 - 45 cal.	.452
390962	20	.361
390941	21-40 cal.	.400
390942	17 cal. Pilot/Cutter	
390716	Extra Cutter Head	

BULLET PULLER COLLETS

Order No.	Collet No.	
392154	1	.17 cal.
392155	2	.22 cal.
392156	3	.6MM
392157	4	.25-6.5 cal.
392158	5	.270 cal.
392159	6	7MM
392160	7	.308-.312 cal.
392161	8	8MM - .338 cal.
392162	9	.348-.355 cal.
392163	10	.366-.375 cal.
392164	11	10mm - 41 cal.
392165	12	.416-.44 cal.
392166	13	.458 cal.

NOTES

*Illustrated
Glossary*

ILLUSTRATED GLOSSARY

ACCURACY: The measure of a bullet's precision; the term describing a firearm's ability to shoot consistently where aimed.

ACP: Automatic Colt Pistol, a term used by Colt for cartridges used in Colt firearms.

ACTION: That portion of the firearm where the round is loaded, fired, and unloaded.

AIR RESISTANCE: A vacuum is space empty of all matter; but our atmosphere is composed of matter and this matter retards the forward motion of a projectile, slowing it down and limiting its maximum range. The relative ability of a bullet to overcome this resistance is termed its ballistic efficiency.

ANNEAL: To soften metal by heating; especially, to soften brass cartridge case necks to prevent cracking from repeated resizing. See *Work Hardening*.

ANTIMONY: A metallic element used in lead alloys to harden them. Most lead bullet cores use up to 3% antimony to give them the hardness necessary for best results.

ANVIL: A metallic point against which the explosive compound of a primer is driven by the firing pin, striker, or hammer of a firearm to produce detonation. See also *Boxer Primer* (a primer in which the anvil is self-contained) and *Berdan Primer* (a primer whose anvil is a part of the cartridge case).

BALANCE: A weighing instrument which suspends two pans of equal weight from a beam supported precisely in the middle. See *Powder Scale*.

BALL: Another name for a bullet, generally military jargon; "ball ammunition," as opposed to shot. Generally full metal jacket.

BALLISTICS: The science which studies the behavior of projectiles in motion. Interior Ballistics concerns itself with events inside a gun from primer ignition through the projectile's departure from the muzzle; Exterior Ballistics deals with the motion of the projectile after it leaves the gun. Terminal Ballistics deals with the projectile when it enters the target.

BALLISTIC COEFFICIENT: The index of a bullet's ability to overcome resistance in flight relative to the performance of a standard projectile used to compute ballistic tables. Mathematically, the ratio of a bullet's weight to the product of the square of its diameter and its form factor.

BALL POWDER: The name given by Olin Industries to the essentially spherical double based smokeless powder the firm developed for the U.S. Military. Claimed to retard throat erosion.

BARREL: That portion of a firearm that includes the chamber and the bore. As the powder burns in the chamber, a projectile is pushed down the barrel and out the muzzle. See *Chamber, Muzzle, Rifling*.

BARREL CYLINDER GAP: The opening or gap present between the cylinder and the barrel in any revolver.

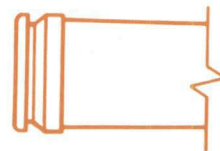
BARREL TIME: The time, usually in milliseconds, the bullet is in the barrel.

BBWC: Bevel Base Wadcutter, a type of cylindrical target bullet, generally used in handguns, with a short taper on the base to facilitate bullet seating.

BEARING SURFACE: That portion of a bullet which contacts the lands and grooves as it travels through a barrel. Sufficient bearing surface is required for good accuracy. See *Bullet*.

BEDDING: A material and/or method for fitting the barrel and/or action to a stock.

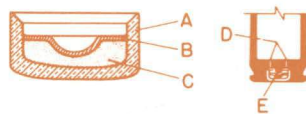
BELL: To bell a case mouth means to slightly open it or flare it to help in bullet seating.



Belted Case

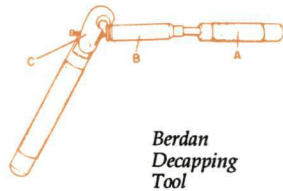
BELTED CASE: Cartridge case which features a raised band around the base and ahead of the extraction groove. Cases of this design headspace off the belt. See *Headspace*.

BENCH REST: Refers to a solid support for a firearm, eliminating human error and therefore testing the firearm and the ammunition. Also a type of competition emphasizing extreme accuracy.



Berdan Primer

BERDAN PRIMER: Commonly used in European cartridges. Berdan primers have no anvil, but utilize a protrusion from the top of the primer pocket for the purpose. In illustration: A, cup; B, protective disc; C, priming compound; D, flash holes; E, anvil (part of the case).



*Berdan
Decapping
Tool*

BERDAN DECAPPING TOOL: A device for depriming Berdan cases. Case holder (A) supports case (B) while decapping unit (C) pries out primer.

BLACKPOWDER: The earliest propellant powder; made of potassium nitrate, charcoal, and sulphur. Thought to be a Chinese invention, it was known in Europe by the 13th Century, is still used today in muzzle-loading firearms.

BOAT TAIL: A tapered bullet heel used frequently on military and match bullets. See *Bullet Types*.

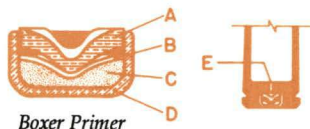
BOLT: That part of a rifle or shotgun which houses the striker and the case extractor mechanism and rotates to lock the cartridge or shell in the firearm's chamber. See also *Locking Lug and Chamber*.

BOLT THRUST: The force on the face of the bolt directly caused by the pressure of burning powder.



BORE: The inside of a firearm's barrel. In rifled firearms the bore diameter is the original dimension of the barrel before the rifling grooves are cut or swaged (dimension A). Dimension B is groove diameter.

BORE SIGHT: To align the sights of a rifle with a target by sighting through the barrel.



Boxer Primer

BOXER PRIMER: The type of primer used in American military and sporting rifle and pistol ammunition. Anvil is self contained, case features one central flash hole. In illustration: A, anvil; B, protective disc; C, priming compound; D, cup; E, case's flash hole. See *Primer*.

BRASS: An alloy of copper and zinc used to make cartridge cases and bullet jackets. Also, a common name for cases themselves. See *Gilding Metal*.

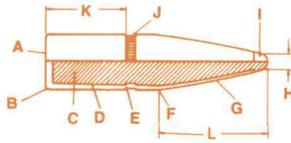
BRISANCE: Shattering effect of explosives.

*Broken
Shell
Extractor*



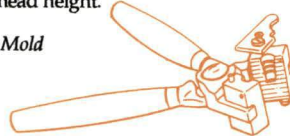
BROKEN SHELL EXTRACTOR: A device for removing headless cases from the chamber of a firearm.

Bullet



BULLET: The projectile shot from a rifle or pistol. To be accurate its center of gravity must be concentric with its center of form. Bullet parts and dimensions include: A, base; B, heel; C, core; D, interlock ring; E, jacket; F, shoulder; G, ogive; H, meplat; I, point; J, cannelure; K, bearing surface; L, head height.

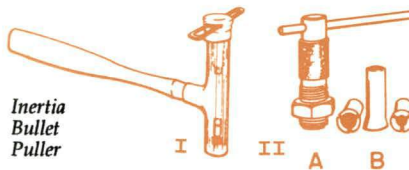
Bullet Mold



BULLET MOLD: A frame with cavity in which lead bullets are cast. A single cavity mold is illustrated. See also *Gang Mold*.

BULLET PATH: The flight path of a bullet after it leaves the firearm, also known as trajectory.

BULLET PULL: The amount of force necessary to pull a bullet from a case.



*Inertia
Bullet
Puller*

BULLET PULLER: Device for removing bullets from cases. Figure I is inertia type; Figure II is collet type (A, collet closer; B, collets).

BULLET TYPES: Different bullet designs fit different shooting needs: (Sectional views shown)



*Spire
Point*

A hunting bullet designed for longer range shooting.



*Round
Nose*

A dependable brush-busting style preferred for hunting in cover.

Flat Point

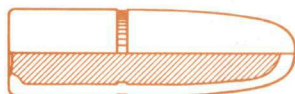


A Round Nose variation used in rifles with tubular magazines.

Hollow Point



A popular varmint bullet with open tip and thin jacket. (Varmint bullets also come with lead points.)

Full
Metal
Jacket

FMJ's have thick, tough jackets of nickel silver or copper clad steel for use on dangerous African and Asian species.

Boat Tail
Hollow
Point

An accurate, very efficient match style.

Short Jacket



An economical semi-jacketed bullet for rifles or pistols.

Cast Bullet



Lead bullets cast from molten metal and often used with gas checks.

BURNING RATE: The relative speed at which smokeless powders burn. Determined by size of granules, perforation, and amount and nature of deterrent coating. See also *Deterrent Coating*.

CALIBER: The diameter of a bullet or other projectile in decimals of an inch or millimeters; the nominal or approximate diameter of a bore expressed similarly.

CANNELURE: An identification, crimping, or lubricant groove on a bullet. See *Bullet*.

CANISTER: A container; powders packed by their manufacturer in canisters are carefully standardized for consistency.

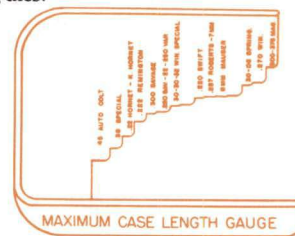
CARTRIDGE: A complete unit of ammunition, especially rifle or pistol ammunition.

CARTRIDGE DESIGNATIONS: Various cartridge naming systems have been and are employed. Some cartridges are named by caliber and inventor or factory (257 Roberts, 284 Winchester); by special trade names (22 Hornet); by caliber and velocity (250-3000 Savage); by caliber and year of introduction (30-'06, for 1906); by caliber and case from which new cartridge was made (22-250, 6mm/284); by alteration of original case design (30-06 Improved); in Europe, by metric measurement of caliber and case length (7mm x 57mm); and by caliber, powder charge, and bullet weight (45-70-500) for 45 caliber, 70 grains of black powder, and a 500 grain bullet).

CASE: Or cartridge case; that paper, plastic, or metal container which holds all other components of fixed ammunition. Basic case designs are straight, tapered, or bottle necked. For cartridge head styles see also cases listed as *Belted*, *Rebated Rim*, *Rimless*, *Rimmed*, and *Semi-Rimless*.

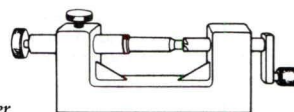
CASE FORMING: Changing a cartridge case to another shape by forming in a different sizing die.

CASE HARDENING: A surface hardening process which changes the outer layer of iron base alloys. Such processes are used to harden reloading dies.

Case
Length
Gauge

CASE LENGTH GAUGE: Device to measure cartridge case length. Figure 1 is a familiar snap gauge.

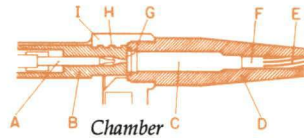
CASE NECK BRUSH: A brush used to clean and lubricate the inside of a case neck.

Case
Trimmer

CASE TRIMMER: Cartridge cases stretch with repeated resizing and firing and must be trimmed to proper length. The Hornady case trimmer handles all types of cases by using the same shellholder as the reloading press.

CAST BULLET: A bullet made by pouring molten lead into a mold. See *Bullet Types*.

CENTERFIRE: A type of ammunition whose primer is centrally positioned in the base of the cartridge case and generally reloadable.



CHAMBER: That breech portion of the barrel which contains and supports the cartridge. In illustration: A, striker; B, bolt; C, chamber; D, barrel; E, rifling; F, leade; G, bolt face; H, locking lugs; I, receiver.

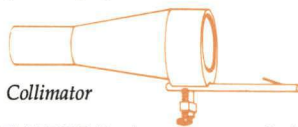


Chamfering-Deburring Tool

CHAMFERING-DEBURRING TOOL: A device to chamfer (bevel) the inside of a cartridge case mouth to facilitate bullet seating and to remove outside burrs from the case.

CHARGE: The amount of powder loaded in a case, as "a charge of 23.5 grains of BL-C".

CHRONOGRAPH: An instrument for measuring time intervals. Chronographs are used to determine the time of flight of projectiles over a fixed length course, and this distance divided by the time of flight is the velocity of the projectile.



Collimator

COLLIMATOR: In shooting, an optical device used to align telescopic sights on rifles or pistols.

COMBUSTION: Burning; the chemical process which unites oxygen and the other substances in gunpowder to produce heat and gas.

COMPRESSED CHARGE: A charge of powder that does not allow ample room in the case for the bullet to be seated and is therefore compacted when the bullet is seated.

COMPONENTS: The ingredients necessary in loading a cartridge.

COPPER: The basic metallic element of such alloys as bronze, brass, or gilding metal.

COPPER CRUSHER: A copper alloy cylinder of precise dimensions and known density used in chamber pressure measurement. Compression of the cylinder — its change in length — is an index of pressure and when used with conversion tables prepared specifically for the

lot of crusher used denotes chamber pressure in pounds per square inch. See *Pressure Gun*.

COPPER FOULING: Deposits of copper jacket material in a rifled barrel usually detrimental to accuracy.

CORDITE: A double-based, long tubular shaped powder, mainly found in British cartridges.

CORE: The central portion of a jacketed bullet. See *Bullet*.

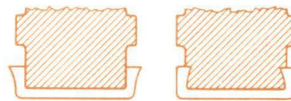
CORROSIVE PRIMER: A type of primer that left water absorbing salts in the barrel, causing rust formation. All current American primers are non-corrosive but some older military and much import military ammunition have corrosive primers. Prompt cleaning with hot water followed by usual cleaning methods generally eliminates problems.

C PRESS: An early and still extremely popular reloading press design. So named for its shape. For illustration, see *Reloading Press*.

CRIMP: To fold in a cartridge case mouth to grip the bullet securely; to fold in the mouth of a shotshell.

CRIMPED PRIMER: In military ammunition, a primer which has been secured in the primer pocket by a flange indented from the mouth of the pocket. Such crimping both helps seal the primer in the case and prevent primer setback on firing. Crimp must be removed before reloading. See *Primer Pocket Swaging*, *Primer Pocket Reamer*.

Crimp On Gas Check



CRIMP ON GAS CHECK: A superior gas check design, exclusive with Hornady Manufacturing Co., which crimps or pinches on the base of a cast bullet and will not come off in the case or barrel or in flight. Illustrations show gas check on bullet and the gas check crimped on. See also *Gas Check*.

CRIMP REMOVER: A reloading accessory to remove crimps from the mouths of military case primer pockets. See *Primer Pocket Swaging*, *Primer Pocket Reamer*.

C/T: Combat Target, a style of Hornady bullet used in both combat style competition or target shooting.

DEBURRING TOOL: A device to remove metal burrs from the mouths of newly trimmed cases. See *Chamfering-Deburring Tool*.

DECAP: Deprimer; to remove the primer from a cartridge case. See *Berdan Decapping Tool and Resizing Die*.

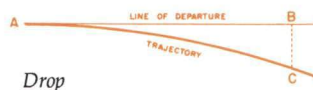
DETERRENT COATING: The combustion controlling chemical coating used on smokeless powder particles to produce desired burning characteristics.

DEWC: Double Ended Wadcutter. A style of cylindrical lead target bullet, either end of which can be seated.

DIE: Mechanically, a tool for cutting, molding, extruding, stamping, drawing, or shaping. In bullet manufacture, a tool for extruding lead wire, drawing jackets, or swaging bullets or cores. In reloading, a tool for resizing cases or seating bullets. See *Resizing Die* and *Seating Die*.

DOUBLE BASE POWDER: Smokeless powder made with both nitrocellulose and nitroglycerine.

DRIFT: Slight deviation from a projectile's initial flight course caused by its rotation.



DROP: The fall of a bullet measured from its line of departure. AB, line of departure; AC, trajectory; BC, drop. Bullets fall because of force of gravity acting on them.

ELEVATION: Vertical sight adjustment to bring the point of aim up or down to the point of impact.

ENERGY: The capacity for doing work (transferring force). Spoken of in ballistics as *Muzzle Energy* or *Remaining Energy*. The measure of energy in ballistics is the *Foot Pound*.

EROSION: Bore or throat wear in a firearm from the effects of hot gases or friction.

EXPANSION RATIO: A comparison of volumes (see below) useful in comparing powder charges to caliber, thereby indicating powder burning efficiency.

$$\frac{\text{Case Volume} + \text{Bore Volume}}{\text{Case Volume}}$$

EXTRUDED POWDER: A type of smokeless powder formed under pressure where the powder kernels look like short rods.

EXTRUDED PRIMER: The pronounced flow of primer metal ("cratering") around the striker or firing pin of a firearm. An indication of excessive pressure.

EXTRUSION: A material forming process in which the material is forced through a die of the desired shape. Lead wire is extruded from large cylindrical billets.

EYE RELIEF: The distance the eye must be held from the rear (ocular) lens or eyepiece of

a telescope in order to obtain a full field of view.

FIRING PIN: That part of a firearm which the trigger/sear mechanism releases to strike the primer of a cartridge and detonate it. More accurately termed a striker in most bolt action rifles.

FIREFORM: To reform a cartridge case by firing it in a chamber of different dimensions.

FLAKE POWDER: A thin flat disc type smokeless powder, generally very fast burning.

FLASH HOLE: The hole or holes from the primer pocket through the web of a centerfire case through which the primer flame passes to ignite the powder.

FLAT POINT: A bullet style characterized by its blunt point and designed especially for rifles with tubular magazines. See *Bullet Types*.

FMJ: See *Full Metal Jacket*.

FOOT-POUND (ft.-lb.): A unit of work; the energy required to lift one pound one foot.

FORCING CONE: The rear beveled portion of the barrel of a revolver.

FORM FACTOR: A multiplier (also called the coefficient of reduction) which relates the shape of a bullet to the shape of the standard projectile used to prepare a particular ballistic table.

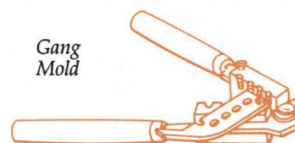
FPS: Feet per second.

FP: See *Flat Point*.

FREEBORE: An unrifled portion of the bore in front of the chamber. See *Chamber, Leade*.

FULL METAL JACKET (FMJ): A bullet whose jacket is open only at the rear. FMJ's for hunting are non-expanding and generally used on thick skinned animals. Full metal jacket or full patch bullets are also used by the military. See *Bullet Types*.

GALLING: A roughness on the surface of two metals created from friction as the two surfaces are "rubbed" together — as in resizing a cartridge case in a die with no lubricant.



GANG MOLD: A multiple cavity bullet mold.

GAS: The vaporous form of a substance capable of expanding indefinitely to fill its container. Gasses are a product of the combus-

tion of gunpowder and expand to propel the projectile down the bore.

GAS CHECK: A rimmed gilding metal disc attached to the base of a cast lead bullet to project it from hot powder gases. See also *Crimp On Gas Check*.

GILDING METAL: The copper-zinc alloy used to make bullet jackets. Hornady Bullets use an alloy of 95% copper, 5% zinc.



Go, No-Go
Gauges



GO, NO-GO GAUGES: Also Minimum-Maximum Gauges. Standard measuring devices to indicate proper headspace in a firearm, proper cartridge length, etc.

GRAIN: The smallest unit of the British and U.S. system of weights. One pound avoirdupois equals 7,000 grains.

GRAM: The basic unit of weight in the metric system. Equal to 15.4324 grains.

GREASE GROOVE: Circumferential indentation on a swaged or cast bullet to hold lubricant.

Grooves



GROOVES: Swaged impressions or cuts spiraled through a bore to rotate projectiles. Groove diameter is represented in the illustration by line A.

GROUP: The distribution of bullets on a target fired with a single aiming point and sight setting. Group size is expressed as the distance between centers of the farthest holes and is most easily determined by measuring the extreme spread from outside to outside and subtracting one bullet diameter.

HALF-JACKET: A swaged lead bullet that has a jacket covering half the bullet with the remainder of the lead exposed.

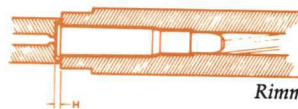
HANDLOADING: Loading individual cartridges with hand tools.

HANGFIRE: An inordinate delay between the striking of the primer and powder ignition.

HBWC: Hollow Base Wadcutter. A very accurate type of cylindrical lead target bullet with a hollow base which, when fired, expands to fill the bore, aiding in accuracy.

HEAD HEIGHT: The height of a bullet from its shoulder to the tip of its point. See *Bullet*.

HEADSPACE: The fit of a cartridge in a chamber measured as the distance from breech face to that part of the chamber which stops the case's forward movement. Insufficient headspace hinders complete chambering; excessive headspace permits case stretching or separation. Four different headspace arrangements are illustrated here. H denotes headspace in each example.



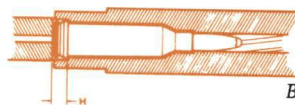
Rimmed Case

Headspace determined by the thickness of the cartridge case rim.



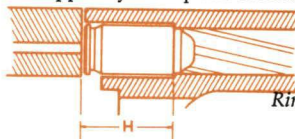
Rimless Case

Shoulder of the case stops it in chamber.



Belted Case

Case is stopped by the top rim of the belt.



Rimless Case
Straight

Shown is the 45 ACP cartridge; its forward motion is stopped by the mouth of the case.

HEEL: The edge of a bullet's base. See *Bullet*.

HOLD OVER: The distance a shooter must raise his point of aim to be on target when his firearm is zeroed in at a lesser distance. The Ballistic Tables in this handbook give a more detailed discussion of the subject.

HOLLOW POINT: An opening in the point of a bullet. See *Bullet Types*.

IGNITION: The powder "lighting" (igniting) process; the primer's sole job.

IMPROVED CARTRIDGE: A cartridge altered to new dimensions by fireforming in an "improved" chamber. Improved cases generally have a sharper shoulder, less taper, and greater powder capacity than standard cases.

IMR: "Improved Military Rifle"; originally DuPont's name for its line of single base canister rifle powders.

INGALLS' TABLES: Ballistic tables computed by the late Col. James M. Ingalls of the U.S. Army. Through their use it is possible to calculate remaining velocities and the trajectories for small arms projectiles.

**Hornady
HANDBOOK**

INTERLOCK: A design, unique to Hornady bullets, where an internal ring locks the core and jacket together. See *Bullet*.

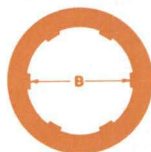
JACKET: The outer casing or covering of a projectile. See *Bullet*.

JHP: Jacketed Hollow Point. A type of jacketed bullet with a hollow space in the tip.

JTC: Jacketed Truncated Cone. A type of jacketed, flat point bullet as opposed to round nose (usually a pistol bullet).

KEYHOLE: The imprint of an unstabilized bullet on a target.

Lands



LANDS: Those portions of the bore projecting up from the rifling grooves. Bore diameter is represented by line B.

LEAD: The dense, pliable metallic element which (generally) in alloy form is the principal ingredient of bullet cores and swaged or cast bullets.



Lead Dipper

LEAD DIPPER: A ladle to pour molten lead into bullet molds.

LEADE: Freebore; the unrifled bore area immediately in front of the chamber. In most firearms it is quite short. See *Chamber*.

Lead
Furnace

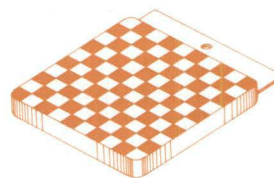
LEAD FURNACE: A heated container in which lead is melted for casting bullets.

LEADING: The process in which lead is deposited in the bores of rifles or pistols when lead bullets are shot in them. One form of metal fouling.

LEE LOADER: A simple and inexpensive reloading device manufactured by Lee Custom Engineering Company.

LINE OF DEPARTURE: A projection of the axis of the bore from which a projectile is fired.

LINE OF SIGHT: The straight line through the sights of a firearm to the aiming point.

Loading
Block

LOADING BLOCK: A useful accessory for holding cartridge cases for reloading.

LOADING DENSITY: A volume ratio of powder charge to case capacity. The closer the ratio is 1 to 1 (or nearer 100%), the higher the load density.

LOCK TIME: The amount of time, in milliseconds, between pulling the trigger and ignition of the powder in the cartridge.

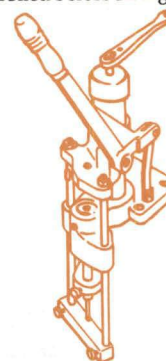
LOCKING LUGS: Bolt projections which fit mating recesses in the receiver to secure the bolt from rearward movement when a cartridge is fired. For illustration, see *Chamber*.

LRN: Lead Round Nose. A style of swaged lead bullet.



Lube Pad

LUBE PAD: A lubricant impregnated pad on which cases are rolled before sizing.

Lubricator-
Resizer

LUBRICATOR-RESIZER: A tool which inserts lubricant in grease grooves, swages cast bullets to final size, and seats gas checks.

MAGNUM: A cartridge or firearm of greater power and capacity than earlier standards in the same caliber.

MEAN RADIUS: The average radius of any group of shots from the center of the group.

MEPLAT: The diameter of the blunt end of the tip of a projectile. The smaller the meplat, the greater the projectile's ballistic efficiency. See *Bullet*.

MERCURIC PRIMER: A primer whose explosive mixture contains mercuric compounds which will attack brass cartridge cases after firing.

METAL FOULING: The depositing of bullet or jacket metal in the bore of a firearm, a process detrimental to best accuracy. See *Copper Fouling, leading*.



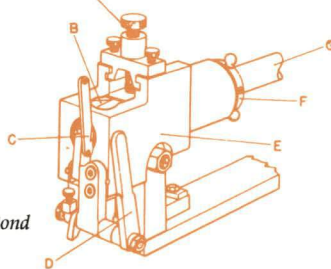
Micrometer

MICROMETER: A caliper type measuring instrument with a fine screw adjustment for measuring minute distances. Useful to the reloader for measuring bullets, case head expansion, etc.

MID-RANGE TRAJECTORY: The height of the trajectory at a point halfway between the muzzle and the point of aim.

MINUTE OF ANGLE (MOA): The arc subtended by an angle of one minute ($1/60$ th of a degree) at any range, usually at 100 yards. A minute of angle at 100 yards is 1.0471680" — so close to an inch that for all practical purposes it is considered an inch.

MISFIRE: A cartridge which fails to fire after its primer is struck.



Modern-Bond Receiver

MODERN-BOND RECEIVER: A strong, heavy laboratory receiver which will accept special barrels of different calibers to measure chamber pressure by the copper crusher method or an electrical transducer. In illustration: A, adjustable anvil; B, breech block; C, firing pin release lever; D, breech locking handle; E, receiver; F, barrel capstan nut; G, barrel. See also *Pressure Gun*.

MOULD BLOCK: Metal blocks with bullet shaped cavities for casting bullets.

MUSHROOM: To expand; said of a bullet which has passed through animal tissue or similar media because of the bullet's expanded shape.

MUZZLE: The end of the barrel.

MUZZLE BLAST: The release of gas from the muzzle following the bullet's departure from the barrel. It always produces noise and is often accompanied by light called muzzle flash.

MUZZLE ENERGY: Foot pounds of energy of a projectile at the muzzle of a firearm.

MUZZLE VELOCITY: The speed of a projectile at the muzzle of a firearm.

NECK: The upper portion of a cartridge case which grips the bullet, expands on firing to release it, and in reloading must be resized to hold a new bullet.

NECK DOWN: To reduce the diameter of the cartridge neck by using a different resizing die (i.e., from a 7mm-08 case to .243 case by using a .243 resizing die).

NECK REAM: The process of removing metal from the inside of the neck of a case.

NECK SIZE: To bring the neck of a case back to its original dimensions to hold a new bullet. Cases fired in the same chamber need neck sizing (resizing) only. See *Resizing Die*.

NECK TURN: The process of reducing neck wall thickness from the outside of the case.

NECK UP: To increase the diameter of the cartridge neck by using a different resizing die. This is made very easy by Hornady's elliptical expander plug.

NONCORROSIVE: Primers made without potassium chlorate, a chemical which when oxidized forms a water-attracting salt which induces bore rusting. American primers for sporting ammunition have been almost entirely noncorrosive since the 1930s. The U.S. military did not decide to convert all small arms ammunition to noncorrosive priming until 1949 and total conversion was not achieved until several years later.

O PRESS: A popular and common type of reloading press. See *Reloading Press*.

OGIVE: The curve of a bullet's forward portion. See *Bullet*, *Secant Ogive*, and *Tangent Ogive*.

OIL DENT: Small dents in cartridge cases that result from too much lubricant when resizing.

OVERBORE CAPACITY: Any cartridge that has a volume too large in relation to bore diameter with normally available powders.

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PARALLAX: The condition which exists when the reticle of a scope does not lie exactly on the image plane. When this optical error exists, changes of eye position will move the position of the reticle relative to the object sighted.

PIERCED PRIMER: A primer whose cup is completely perforated by the striker. Such a condition permits powder gases to escape rearward into the action.

PLINKING: Informal target shooting.

POINT: The tip of a bullet. See *Bullet*. See *Bullet Types* for various point configurations.

POINT OF AIM: That point with which a firearm's sights are aligned to the bullet's path.

POINT OF IMPACT: That point which a bullet strikes; usually considered in relation to *Point of Aim*.

PORT PRESSURE: The pressure at the gas port from a gas operated firearm.

POWDER: Gunpowder; a propellant comprised of mixtures of various substances, that when ignited, produces large volumes of gas. Used in firearms to propel projectiles. See *Blackpowder*, *Smokeless Powder*.

POWDER BRIDGING: The act of powder kernels interlocking in the drop tube of a powder measure and forming a "bridge" preventing the powder from passing through the tube — common to coarse extruded powders.



Powder Funnel

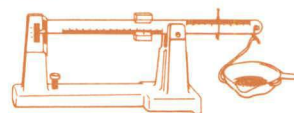
POWDER FUNNEL: A handy reloading accessory which facilitates charging cases with powder.



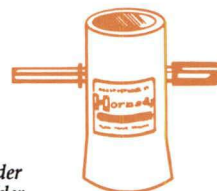
Powder Measure

POWDER MEASURE: A reloading device designed to throw uniform powder charges. The Hornady Powder Measure illustrated is adjusted by a micrometer dial.

Powder Scale



POWDER SCALE: A measuring device to weigh powder. Markers are moved along the graduated beam to the desired setting and powder is poured into the pan until the scale balances.



Powder
Trickler

POWDER TRICKLER: A reloading accessory to drop minute quantities of powder to facilitate precise weighing.

PRESSURE: Force per unit area, measured in interior ballistics terms of pounds per square inch.

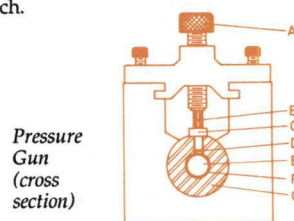


Fig. I

PRESSURE GUN: A laboratory device for measuring the breech pressure of ammunition. Shown in Figure I is a cross section of a *Modern-Bond Receiver*. A, adjustable anvil; B, copper crusher; C, piston; D, gas check; E, inside of cartridge case; F, case wall; G, barrel.

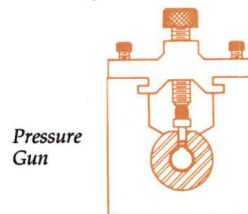


Fig. II

In Figure II, cartridge has been fired. Pressure has perforated the wall of the case, driven up the piston and copper cylinder (crusher) against the anvil. See also *Copper Crusher*.

PRIMER: The small cup containing an explosive compound which is detonated to ignite the powder in centerfire metallic ammunition. Also, caps to ignite charges in muzzle loading arms. See *Berdan Primer* and *Boxer Primer* for illustrations.



Primer
Turning
Plate

PRIMER TURNING PLATE: An accessory to orient primers in the same direction for convenient use.

PRIMER LEAK: Gases that have escaped between the primer and the primer pocket wall due to excess pressure.

PRIMER POCKET: The cavity in the base of a centerfire case which holds the primer. See *Boxer Primer*.

PRIMER POCKET REAMER: A tool with a sharpened working tip that removes the primer pocket crimp from military cases.

PRIMER POCKET SWAGING: Removing the crimp in primer pocket of a military case by using a punch and base set. Crimps may also be removed by reaming.

PRIMER TOOL: A tool designed specifically for priming.

PROJECTILE: A bullet, shell, golfball, or other object hurled, hit, or shot in space.

PROOF: The test of a firearm's ability to withstand working pressures and strains. High pressure loads (proof loads sometimes called "blue pills") are fired to establish a margin of extra strength in the arm — and thus a margin of safety. European governments oversee such testing by law, but firearms manufacturers in the U.S. conduct proof testing privately and independently.

PROPELLANT: The powder burned to propel a projectile. See *Powder*.

PROTRUDING PRIMER: A primer that, after firing, backs out beyond flush with the case head, normally a result of excess headspace or a low pressure load.

RAM: The main central shaft of the reloading tool. See *Reloading Press*.

RANGE: The horizontal distance to an untended target.

REAM: To make a cavity or remove material from a cavity with a rotary cutting tool.

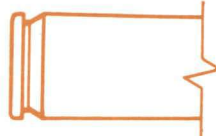


Neck Reamer

REAMER: A rotary cutting tool such as one used to make rifle or pistol chambers or reloading dies. Also, a small hand tool used to

remove crimps from military primer pockets or to ream case necks (illustrated).

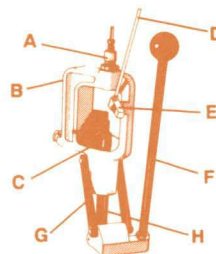
Rebated
Rim Case



REBATED RIM CASE: A case (such as the 284 Winchester) whose body diameter is greater than its rim diameter.

RECEIVER: That portion of a firearm which holds the barrel and houses the bolt and firing mechanism. See *Chamber* for illustration.

RECOIL: The rearward motion or "kick" or a gun on firing. Recoil in shooting is the practical effect of Newton's Third Law of Motion: for every action there is an opposite and equal reaction.

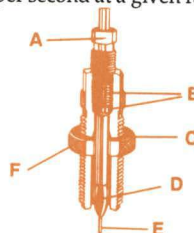


Reloading
Press

RELOADING PRESS: A tool for reforming cartridge cases and seating bullets in cartridge reloading. Illustrated is the Hornady 00-7 tool, an O type press, the most common and popular press design today. A, resizing die; B, frame; C, shell holder; D, primer feed; E, primer arm; F, handle; G, linkage; H, Ram.

REMAINING ENERGY: A projectile's energy in foot-pounds at a given range.

REMAINING VELOCITY: A projectile's velocity in feet per second at a given range.



Resizing
Die

RESIZING DIE: The reloading die which reforms cartridge cases to proper dimension. The cut away diagram of a Hornady New Dimension Die illustrates the following parts: A, wrench flats; B, collar and collar lock; C, expander spindle; D, elliptical expander; E, hardened steel decay pin; F, Sure-Loc lock rings.

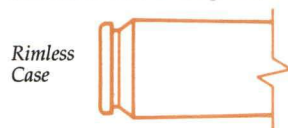
RETICLE: The system of crosshairs, fine lines, or dots in the focus of a telescope, used for aiming.

RIFLING: The spiral grooves in the bore of a rifled firearm. The rotation they impart to a projectile stabilizes it in flight.



RIMMED CASE: A case with a flange on its base. This rim is used for both extraction and as a means of headspacing the cartridge.

RIMFIRE: A type of cartridge in which the priming compound is spun into the rim. Not reloadable (i.e., .22 long rifle).



RIMLESS CASE: Cartridge case whose base flange is the same diameter as the case head. Groove ahead of the rim permits extraction.

RN: See *Round Nose*.

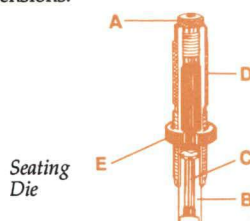
ROTATION: The spin of a projectile imparted to it by the rifling. The faster the *Twist* of the rifling and/or the higher the velocity, the faster the rotation.

ROUND: One complete unit of ammunition.

ROUND NOSE: A bullet with blunt rounded tip preferred for hunting at moderate ranges or in brushy country. For illustration see *Bullet Types*.

SABOT: (pronounced say-bo) Literally a "shoe", or lightweight cover containing a smaller bullet and used in a larger bore barrel (i.e., a .224" bullet plus sabot in a .308 barrel or .44 bullets in a .50 caliber black powder muzzle loader).

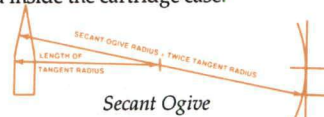
SAAMI: Sporting Arms and Ammunition Manufacturer's Institute. In the U.S., this organization maintains and provides standard specifications for cartridge cases and chamber dimensions.



SEATING DIE: A reloading die that inserts the bullet in the neck of the cartridge case. In the illustration of the Hornady New Dimension: A, seating adjustment; B, sliding align-

ment sleeve; C, floating steel seating stem; D, die body; E, die body lock ring.

SEATING DEPTH: The length of a bullet seated inside the cartridge case.



SECANT OGIVE: Bullet design in which the cylindrical surface of a bullet is secant to the curve of the head. The design used in Hornady Spire Point Bullets.

SECTIONAL DENSITY: The ratio of a bullet's weight in pounds to the square of its diameter in inches. Bullets of the same shape but with more weight in relation to their diameter retain their velocity and energy better.



SEMI-RIMMED CASE: A cartridge case with a rim slightly larger than the body diameter. Extraction groove is not as deeply cut in this type of case as in a rimless case.

SHANK: The cylindrical section of a bullet.

SHELL HOLDER: The cartridge case holder on a *Reloading Press* or other tool.

SHOCK: The transference of the kinetic energy of a bullet to animal tissue or other media.

SHOCK WAVE: The atmospheric disturbance produced by a supersonic projectile.

SHORT JACKET: A type of bullet swaged from a lead core and short gilding metal cup. See *Bullet Types*.

SHOULDER: The projection of a bottle necked cartridge case from the neck to the case body; or, the point at which the head of a projectile joins the cylindrical rear portion.

SIGHT: A device for aiming a firearm; or, the process of aiming.

SIGHTING IN: Firing a rifle or pistol to determine its point of impact at a specified range and to adjust the sights so that the point of impact has the desired relationship to the point of aim.

SIGHT RADIUS: The distance between front and rear iron sights.

SIL: Silhouette; referring to a style of bullet used in the sport of metallic silhouette shooting.

SINGLE BASE POWDER: Smokeless powder made of nitrocellulose.

SJ: Short Jacket. A style of inexpensive bullet with a short jacketed portion and a larger than normal lead tip.

SLUG: (1) A hollow based lead bullet used primarily in shotguns for deer hunting. (2) To slug a barrel is to force a soft lead projectile through the bore of a gun to determine bore and groove diameter.

SMOKELESS POWDER: A high energy propellant used in small arms projectiles.

SOFT POINT: Any jacketed bullet with an exposed lead tip.

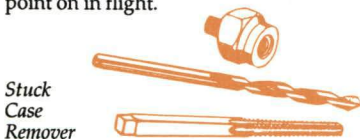
SPHERICAL POWDER: A type of smokeless powder where the powder kernels are small, round particles (ball powder).

SPIN: The rotation of a projectile imparted by the rifling in a firearm's bore.

SPIRE POINT (SP): An efficient bullet design for long range big game or varmint hunting or target shooting. See *Bullet Types* and *Secant Ogive*.

SPITZER: A pointed bullet, usually one whose head design is a *Tangent Ogive*.

STABILIZE: To rotate a projectile around its longitudinal axis rapidly enough to keep it point on in flight.



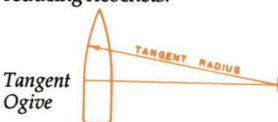
Stuck
Case
Remover

STUCK CASE REMOVER: A device to remove stuck cases in a reloading die. Hornady unit is illustrated.

SWAGE: (pronounced swaje) To form with pressure.

SWC: Semi-Wad Cutter. A type of bullet usually lead, used for target and general shooting.

SX: Super Explosive, a Hornady designed bullet with a very thin jacket, allowing it to readily expand in small game or varmints or to disintegrate on impact with solid ground, reducing ricochets.



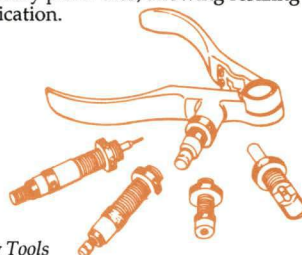
Tangent
Ogive

TANGENT OGIVE: A bullet whose cylindrical surface is tangent to the curve of the point. The radius of the ogive is generally expressed in calibers.

THROAT: Leade or freebore; the unrifled portion of the bore immediately in front of the chamber. Generally very short. See *Chamber* for illustration.

TIME OF FLIGHT: The time it takes a projectile to cover a given distance.

TITANIUM NITRIDE: A golden colored alloy with extreme slipperiness used in some Hornady pistol dies, allowing resizing without lubrication.



Tong Tools

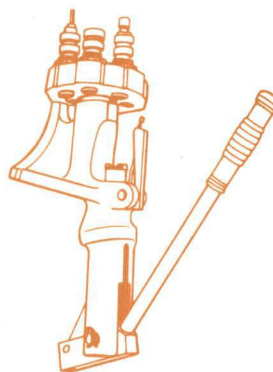
TONG TOOL: A hand held reloading tool. The Lyman 310 Tong Tool is illustrated.

TRAJECTORY: The flight path of a projectile.

TRANSDUCER: Literally, a device that converts one form of energy into another. Commonly, a quartz crystal is used to convert chamber pressures into a measurable electrical current.

TUNGSTEN CARBIDE: A metal composed of powdered carbide of tungsten cemented (fused) together under heat with cobalt. The hardest man made metal; used in some pistol case resizing dies — and in all the bullet drawing and swaging dies for making Hornady Bullets.

TUBULAR POWDER: Smokeless powder whose cylindrical granules have one or more longitudinal holes through them.



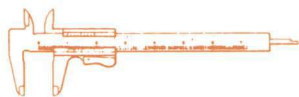
Turret
Tool

TURRET TOOL: A reloading press with rotating turret for positioning resizing and seating dies and powder measure. A Lyman press is illustrated.

TWIST: The rate of spiral of the grooves in a barrel, expressed as a revolution per inches, for example one turn in ten inches.

VARMINT: A non-game animal commonly considered a pest — also known as vermin.

VELOCITY: The speed of a projectile expressed as distance per unit time.



*Vernier
Caliper*

VERNIER CALIPER: A graduated instrument for measuring distances precisely. Very useful to the reloader in measuring case and overall cartridge lengths.

WADCUTTER: A swaged or cast pistol bullet. Its primary purpose is for target shooting. Because of its shape, it cuts neat holes in the target.

WCF: Winchester Center Fire. A term used by Winchester for cartridges designed by them (i.e., .30 WCF).

WEB: The thickness of the solid portion of a brass cartridge case between primer pocket

and case interior; the wall thickness of tubular powder.

WILDCAT: A non-commercial cartridge design.

WINDAGE: Horizontal (lateral) sight adjustment.



*Wind
Deflection*

WIND DEFLECTION: The lateral deflection of a bullet caused by cross wind.

WORK HARDEN: To change the grain structure of metal by drawing or working. Brittle, work hardened case necks are often annealed to prevent cracking.

XTP: Extreme Terminal Performance. Hornady's designation for its modern pistol bullet which not only expands at a wide range of velocities but penetrates deeply.

YAW: Normally, a situation where a bullet rotates on its axis at a small angle to the line of flight.

ZERO: In shooting, the sight setting at which point of impact and point of aim coincide at a given range.

